TOSHIBA

# Color Television

## 36AX61

## Owner's Manual

COLORSTREAM®

TOSHIBA AMERICA CONSUMER PRODUCTS, INC.
UL REGISTERED FIRM
ISO 14001 FILE No. A9645

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23565247A

Welcome to Toshiba
Connecting your TV
Using the Remote Control
Setting up your TV
Using the TV's Features
Appendix
Index

## Dear Customer,

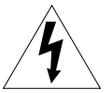
Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV. **Before operating the TV, please read this manual completely**, and keep it nearby for future reference.

# Safety Precautions

**WARNING**

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

**WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**



**The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.**

**The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.**

## NOTE TO CATV INSTALLERS IN THE USA

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 24 and 25 on page 4.

## NOTICE OF POSSIBLE TV STAND INSTABILITY

**DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!** Use this TV with the TOSHIBA TV stand recommended in the "Specifications" section only. Use with other stands may result in instability, causing possible injury or death.

## NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE TUBE

If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube. **This type of damage is NOT COVERED BY YOUR WARRANTY.** See item 32 on page 4.

# Child Safety

## It Makes A Difference Where Your TV Stands

**Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:**

## The Issue

- ❑ If you are like most Americans, you have a TV in your home. Many homes, in fact, have more than one TV.
- ❑ The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- ❑ Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

## Toshiba Cares!

- ❑ The consumer electronics industry is committed to making home entertainment enjoyable and safe.
- ❑ The Consumer Electronics Association formed the Home Entertainment Support Safety Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

## Tune Into Safety

- ❑ One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).
- ❑ Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- ❑ Carefully read and understand the other enclosed instructions for proper use of this product.
- ❑ Do not allow children to climb on or play with furniture and TVs.
- ❑ Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- ❑ Remember that children can become excited while watching a program and can potentially push or pull a TV over.
- ❑ Share our safety message about this hidden hazard of the home with your family and friends. Thank you!

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*CEA is the Sponsor, Producer and Manager of the International CES®*

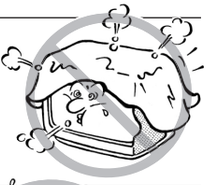
# Important Safety Instructions

1) **Read these instructions.**
2) **Keep these instructions.**
3) **Heed all warnings.**
4) **Follow all instructions.**

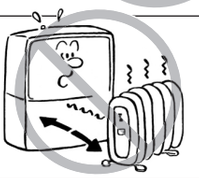
5) **Do not use this apparatus near water.**

6) **Clean only with a dry cloth.**

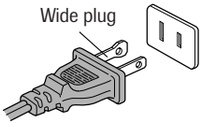
7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.



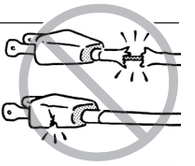
8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



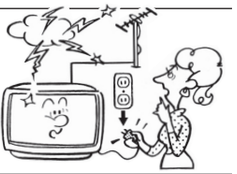

10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.



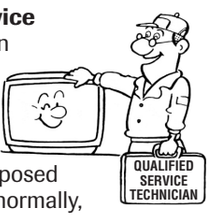
11) **Only use attachments/accessories specified by the manufacturer.**

12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**



14) **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.




# Installation, Care, and Service

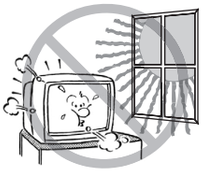
## Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

15) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

16) **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!** Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.

17) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).



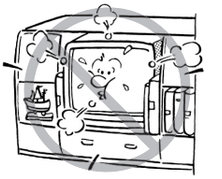
18) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

19) Never place items such as vases, aquariums, or candles on top of the TV.

20) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

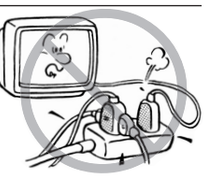
- on a bed, sofa, rug, or similar surface;
- too close to drapes, curtains, or walls; or
- in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.

The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV.



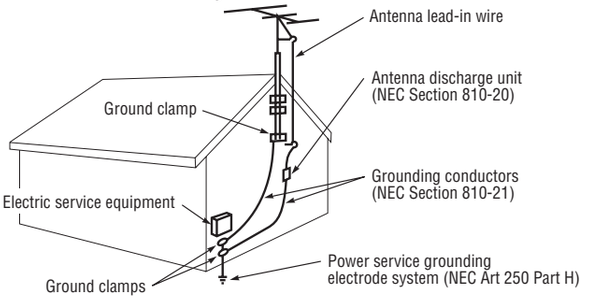
21) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

22) Never overload wall outlets and extension cords.



23) Always operate this equipment from a 120 VAC, 60 Hz power source only.

24) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).


Antenna lead-in wire
Antenna discharge unit (NEC Section 810-20)
Ground clamp
Grounding conductors (NEC Section 810-21)
Electric service equipment
Power service grounding electrode system (NEC Art 250 Part H)
Ground clamps

25) **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

• Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.

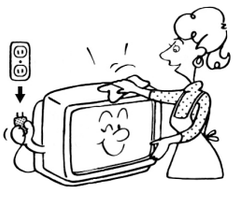
• Never attempt to install any of the following during lightning activity:
a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

## Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

26) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.

27) Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.



28) **WARNING: RISK OF ELECTRIC SHOCK!** Never spill liquids or push objects of any kind into the TV cabinet slots.

29) [*This item applies to projection TVs only.*] If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.

30) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.

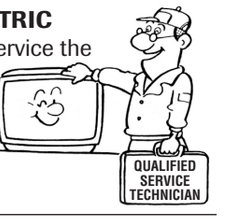
31) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

32) **Possible Adverse Effects on TV Picture Tube:** If a fixed (non-moving) pattern remains on the TV screen for long periods of time, the image can become permanently engrained in the picture tube and cause subtle but permanent ghost images. **This type of damage is NOT COVERED BY YOUR WARRANTY**. Never leave your TV on for long periods of time while it is displaying the following formats or images:

- **Fixed Images**, such as PIP/POP windows, stock tickers, video game patterns, TV station logos, and websites.
- **Special Formats** that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (gray bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (gray bars on left and right sides of screen).

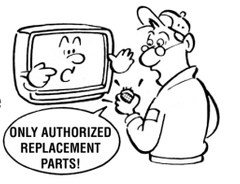
## Service

33) **WARNING: RISK OF ELECTRIC SHOCK!** Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Refer all servicing to a Toshiba Authorized Service Center.




34) If you have the TV serviced:

- Ask the service technician to use only replacement parts specified by the manufacturer.
- Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.




35) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

**Important Safety Information ..... 2–4**

**Welcome to Toshiba ..... 7**

Exploring your new TV ..... 7

Selecting a location for the TV ..... 7

**Connecting your TV ..... 8**

**Note regarding picture quality ..... 8**

Connecting a VCR ..... 8

Connecting a cable converter box ..... 9

Connecting a cable converter box and VCR ..... 9

Connecting a DVD player or satellite receiver and a VCR ..... 10

Connecting a DVD player with ColorStream® (component video) and a VCR ..... 11

Connecting two VCRs ..... 11

Connecting a camcorder ..... 12

Connecting an audio amplifier ..... 12

**Using the remote control ..... 13**

Preparing the remote control for use ..... 13

Installing the remote control batteries ..... 13

Remote control functional key chart ..... 14

Programming the remote control for use with your audio/video devices ..... 16

Device code setup ..... 16

Searching and sampling the code of a device (991) ..... 16

Verifying the device code (990) ..... 17

Using the Volume Lock feature (993) ..... 17

Operational feature Reset (980) ..... 17

Device code table ..... 18

Learning about the remote control ..... 22

**Setting up your TV ..... 23**

Changing the on-screen display language ..... 23

Selecting the antenna input ..... 23

Selecting the signal source ..... 24

Adding channels to the TV's memory ..... 24

Programming channels automatically ..... 24

Adding and erasing channels manually ..... 25

Changing channels ..... 25

**Using the TV's features ..... 26**

Adjusting the channel settings ..... 26

Switching between two channels ..... 26

Programming your favorite channels ..... 26

Using the V-Chip menu ..... 27
Selecting a PIN code ..... 27
Changing your PIN code ..... 28
Blocking programs by ratings ..... 29
Ratings definitions (MPAA, Youth TV, TV) ..... 29
Unblocking programs temporarily ..... 31
Blocking unrated movies and programs ..... 31
Blocking channels ..... 32
Locking video inputs ..... 33
Channel labels ..... 34
Video labels ..... 35
Watching picture-in-picture (PIP) ..... 36
Switching the main and small pictures ..... 36
Changing the location of the PIP window ..... 37
Freezing the PIP display ..... 37
Watching multi-window PIP ..... 37
Adjusting the picture ..... 38
Adjusting the picture quality ..... 38
Selecting the color temperature ..... 38
Adjusting the picture preference ..... 39
Displaying on-screen information ..... 39
Setting the sleep timer ..... 39
Auto power off ..... 39
Using the closed caption feature ..... 40
Adjusting the sound ..... 41
Muting the sound ..... 41
Selecting stereo/SAP broadcasts ..... 41
Adjusting the sound quality ..... 42
Using the surround sound feature ..... 42
Selecting variable audio OUT ..... 43
Turning off the built-in speakers ..... 43
Using the sub-bass system (SBS) ..... 44
Viewing the demonstration (DEMO) mode ..... 44
Understanding the last mode memory feature ..... 44

**Appendix ..... 45**

Troubleshooting ..... 45
Cleaning and care ..... 46
Specifications ..... 46
Limited United States warranty ..... 47
Limited Canada warranty ..... 48

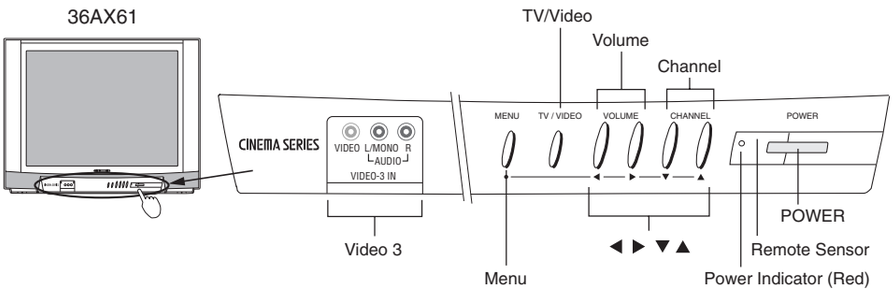
# Welcome to Toshiba

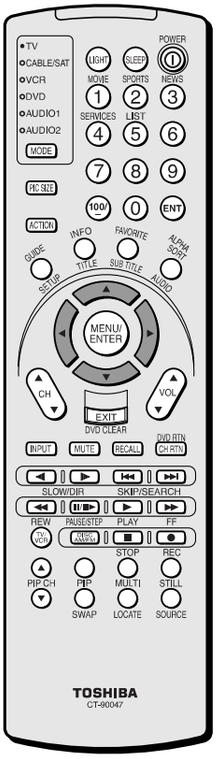
Congratulations! You have purchased one of the finest color TVs on the market. The goal of this manual is to guide you through setting up and operating your Toshiba TV as quickly as possible. You may need to purchase other audio or video cables to connect your equipment. See "Connecting your TV" on page 8 for more information.

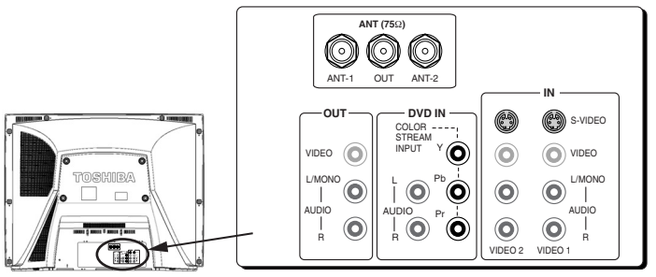
Please read all safety and operating instructions carefully before you begin.

## Exploring your new TV

You can operate your TV using the buttons on the front panel or the remote control. The front and back panels provide all the terminal connections for connecting other equipment to your TV.




## Selecting a location for the TV

- Place the TV on the floor or on the optional TV stand listed in the "Specifications" section.
- Place the TV in a location where light does not directly hit the screen.
- Place the TV far enough from the walls to allow proper ventilation. Inadequate ventilation may cause overheating, which may damage the TV.

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

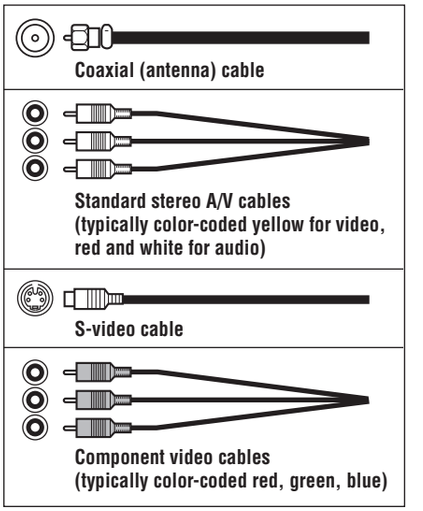
Model number: **36AX61**

Serial number: _____

# Connecting your TV

***Note:*** *Cables are not supplied with your TV.*

- **Coaxial cable** is the cable that comes in from your antenna, cable TV service, or cable converter box. Coaxial cable uses "F" connectors.
- **Standard stereo A/V cables** usually come in sets of three, and are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio. Your TV's standard A/V inputs are color-coded in the same manner as the cables.
- **S-Video cable** is for use with video equipment that has S-Video connectors.
- **Component video cables** come in sets of three (typically color-coded red, green, and blue), and are for use with video equipment that has component video connectors. Your TV's ColorStream® (component video) inputs are color-coded in the same manner as the cables.




***CAUTION:*** *Do not plug in any power cords until you have finished connecting all equipment.*

### NOTE REGARDING PICTURE QUALITY

When connecting video equipment to your Toshiba TV:

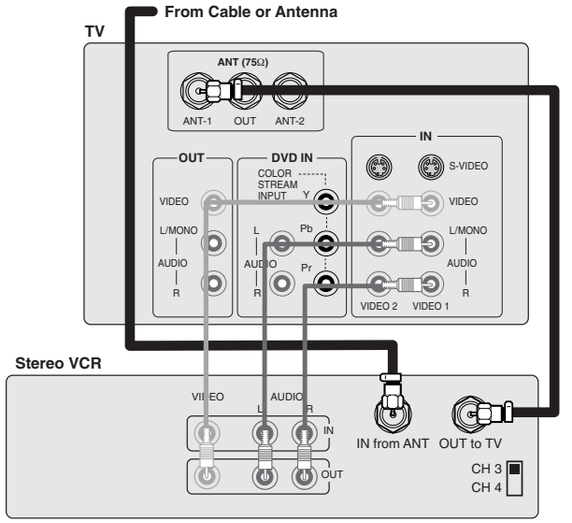
- **For GOOD picture quality:** Use a standard yellow video cable.
- **For BETTER picture quality:** If your equipment has S-video connectors, use an S-video cable ***instead of*** a standard yellow video cable. (You still must connect the standard red and white audio cables for full system connection, but *do not connect a standard yellow video cable at the same time* or the picture performance will be unacceptable.)
- **For BEST picture quality:** If your equipment has component video connectors, use component video cables ***instead of*** a standard yellow video cable or S-video cable. (You still must connect the standard red and white audio cables for full system connection.)

## Connecting a VCR

This connection allows you to watch local channels and video programs, play or record on the VCR while watching TV, and record from one channel while watching another channel.

**You will need:**

- two coaxial cables (one or more may be supplied by cable company)
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable




***Caution:***

*If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.*

*If you have an S-VHS VCR, use the S-video connections and omit the video cable.*

*Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.*

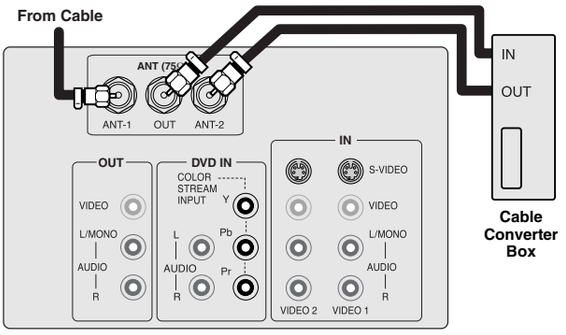
**The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.**

## Connecting a cable converter box

This connection allows you to watch basic and premium cable channels. To use the TV features (such as PIP swap, Channel ▲▼, channel block, favorite channels, or channel labels ), select ANT-1. To view premium channels, select ANT-2, tune the TV to channel 3 or 4 (whichever channel is vacant in your area), and use the converter box to change channels.

**You will need:**

- three coaxial cables (one or more may be supplied by cable company)




***Note:***

*When you use a converter box with your TV, the remote control may not operate certain features, such as PIP swap, channel ▲▼, channel block, favorite channels, or channel labels.*

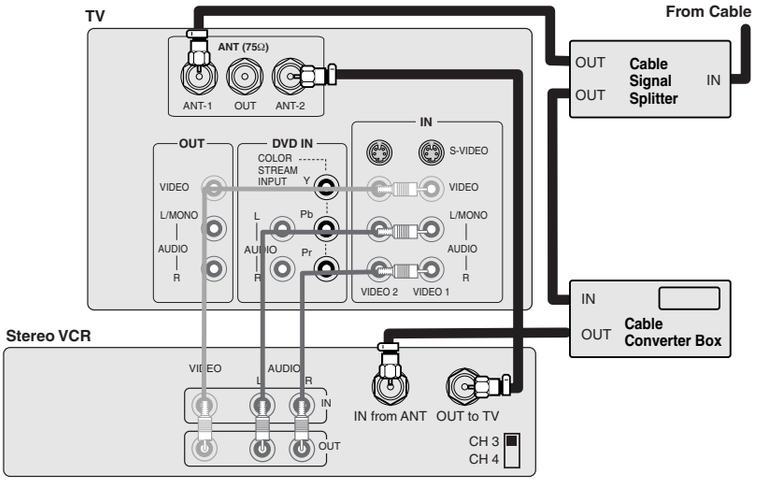
**The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.**

## Connecting a cable converter box and VCR

This connection allows you to watch and record basic and premium cable channels, as well as watch videotapes. Set the TV signal source to Video1 (see "Watching video input" on page 24). Tune the VCR to channel 3 or 4 (the same channel as the converter box output switch). Use the cable converter box to change channels. Set the PIP source to TV mode (see page 36).

**You will need:**

- five coaxial cables (one or more may be supplied by cable company)
- one pair of audio cables (one single audio cable for a mono VCR)
- one video cable
- one cable splitter




***Note:***

*When you use a converter box with your TV, the remote control may not operate certain features, such as PIP swap, channel ▲▼, channel block, favorite channels, or channel labels.*

*If you have a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable.*

*If you have an S-VHS VCR, use an S-video cable instead of a regular video cable.*

*Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.*

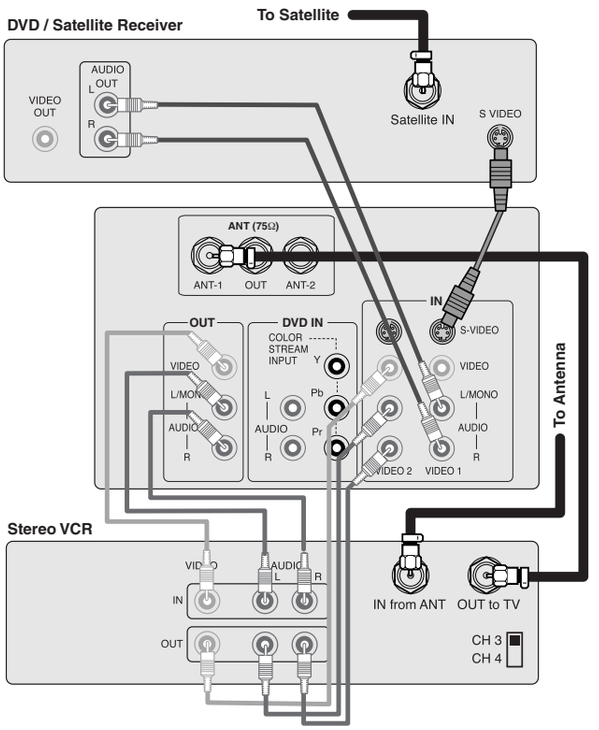
## Connecting a DVD player or satellite receiver and a VCR

This connection allows you to watch DVD/satellite, VCR, or TV programs. You can record from the DVD player/satellite receiver and TV, as well as record one TV channel while watching another channel.

**Note:** If your DVD player has component video connections, follow the connection instructions under "Connecting a DVD player with ColorStream™ (component video) and a VCR" on page 11.

**You will need:**

- three coaxial cables (one or more may be supplied by cable company)
- three pairs of audio cables (one pair and two single audio cables for a mono VCR)
- two regular video cables
- one S-video cable




***Note:***

*You can use a regular video cable instead of an S-video cable between the TV and DVD player/satellite receiver, but the picture quality will decrease.*

*The illustration at left shows one S-video cable and one pair of audio cables connected to Video-1 on the TV. Make sure you do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time. Doing so will distort the picture.*

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## Connecting a DVD player with ColorStream® (component video) and a VCR

This connection allows you to watch DVD, VCR, or TV programs, and record DVD or TV programs (when authorized). You can record from one source while watching a program from another source.

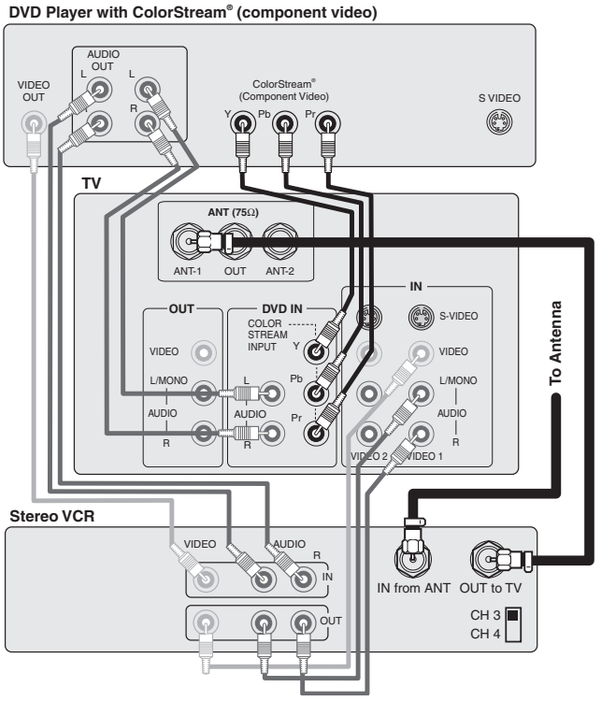
Your TV has ColorStream (component video) connections. Connecting your TV to a component video compatible DVD player (such as a Toshiba DVD player with ColorStream®) can greatly enhance picture quality and performance.

**You will need:**

- two coaxial cables (one or more may be supplied by cable company)
- three pairs of audio cables (one pair and two single audio cables for a mono VCR)
- two regular video cables
- one set of ColorStream (component) video cables

***Note:***

*For the best picture performance, use ColorStream/ component video cables between the TV and DVD player. To record from the DVD player, the DVD player and TV must select VIDEO 1.*

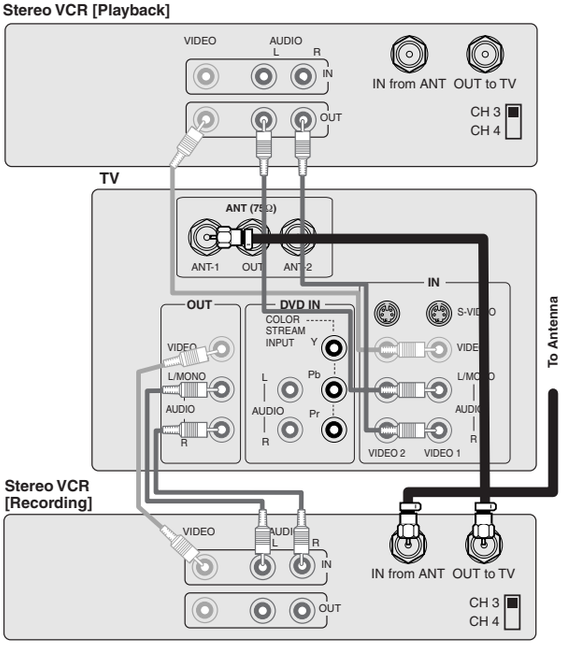



## Connecting two VCRs

This connection allows you to record from one VCR to another VCR while watching a video program. You also will be able to record from one TV channel while watching another channel.

**You will need:**

- two coaxial cables (one or more may be supplied by cable company)
- two pairs of audio cables (two single audio cables for mono VCRs)
- two video cables

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***Note:***

*If you have S-VHS VCRs, use S-video cables instead of regular video cables.*

*Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.*

*Do not connect the same VCR to the output and input jacks on the TV at the same time.*

## Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder.

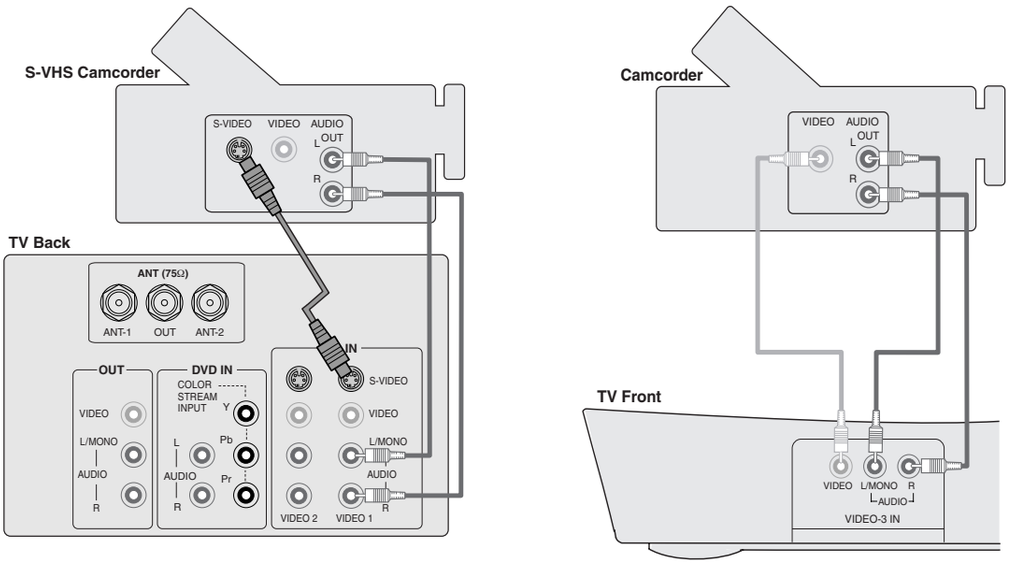
**You will need:**

- one pair of audio cables
- one video cable

***Note:***

*If your camcorder has an S-video connection, an S-video cable will provide better picture performance than a regular video cable.*

*Do not connect a regular video cable and an S-video cable to Video-1 (or Video-2) at the same time.*




## Connecting an audio amplifier

This connection allows you to use an audio amplifier to adjust the audio level. This connection also allows you to use external speakers.

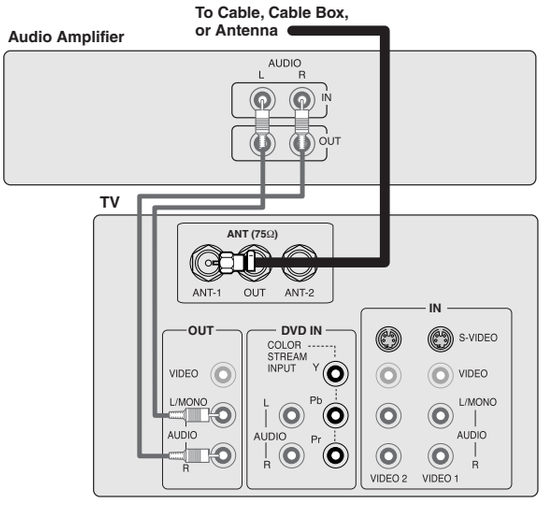
To control the audio, turn on the TV and the stereo amplifier.

**You will need:**

- one coaxial cable (may be supplied by cable company)
- one pair of audio cables

***Note:***

*The volume of both the TV and the amplifier must be set above 0, or you will not hear any sound.*

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# Using the remote control

## Preparing the remote control for use

Your Toshiba remote control has one dedicated TV mode and five universal modes: VCR, Cable/SAT, DVD, Audio1, and Audio2. The target and default devices being programmed for each mode are as follows:

Target device/Mode mapping

| Mode | Device |
|---|---|
| TV | Toshiba TV |
| CABLE/SAT | Universal Cable, Satellite |
| VCR | Universal VCR, DVD, LD, Cassette |
| DVD | Universal DVD, VCR, LD, Cassette |
| AUDIO1 | Universal Audio: Amp., Tuner, Misc.Audio, CD/MD |
| AUDIO2 | Universal Audio: CD/MD, Amp., Tuner, Misc.Audio |

Default device codes

| Mode | Default device |
|---|---|
| TV | Toshiba TV |
| CABLE/SAT | Toshiba Satellite receiver |
| VCR | Toshiba VCR |
| DVD | Toshiba DVD |
| AUDIO1 | Pioneer Audio receiver |
| AUDIO2 | Pioneer LD |

Repeatedly press **MODE** to cycle among the modes. If you own different brands of audio/video devices, you first have to program your remote control (see "Programming the remote control for use with audio/video devices" on page 16).

***Note:***

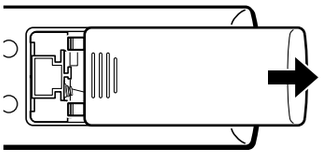
*Your TV's remote control may or may not operate your audio/video devices.*

*Refer to the owner's manuals supplied with the devices to see which features are available. In addition, the original controllers may have features not available on this remote control. If you would like to continue to use these features, you may want to use the original remote control.*

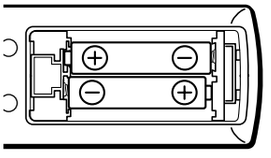
## Installing the remote control batteries

To install the batteries:

1. Slide the battery cover off the back of the remote control.



2. Install two "AA" size alkaline batteries. Match the + and - signs on the batteries to the signs on the battery compartment.



3. Slide the battery cover back on the remote control until the lock snaps.

***Caution:***

- *Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.*
- *Do not mix battery types or combine used batteries with new ones.*
- *Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment.*
- *Battery life expectancy is about one year with normal use. If you do not intend to use the remote control for a long time, remove the batteries.*

## Remote Control functional key chart

| Key Label | Toshiba TV (TV) | Cable (CBL/SAT) | Satellite (CBL/SAT) | VCR | DVD/LD | Receiver (AUDIO) | CD/MD (AUDIO) | Cassete (VCR) |
|---|---|---|---|---|---|---|---|---|
| LIGHT | Illuminates the remote | | | | | | | |
| SLEEP | Sleep timer | --- | --- | --- | --- | --- | --- | --- |
| POWER | Power | Power | Power | Power | Power | Power | Power | Power |
| 1/MOVIE | Digit 1 | Digit 1 | Digit 1 | Digit 1 | Digit 1 | AV input 1 | Digit 1 | Digit 1 |
| 2/SPORTS | Digit 2 | Digit 2 | Digit 2 | Digit 2 | Digit 2 | AV input 2 | Digit 2 | Digit 2 |
| 3/NEWS | Digit 3 | Digit 3 | Digit 3 | Digit 3 | Digit 3 | AV input 3 | Digit 3 | Digit 3 |
| 4/SERVICES | Digit 4 | Digit 4 | Digit 4 | Digit 4 | Digit 4 | AV input 4 | Digit 4 | Digit 4 |
| 5/LIST | Digit 5 | Digit 5 | Digit 5 | Digit 5 | Digit 5 | CD | Digit 5 | Digit 5 |
| 6 | Digit 6 | Digit 6 | Digit 6 | Digit 6 | Digit 6 | Tuner | Digit 6 | Digit 6 |
| MODE | Device mode selection for the remote control | | | | | | | |
| PIC SIZE | This button is not available for this TV model or any other device connected to this TV. | | | | | | | |
| 7 | Digit 7 | Digit 7 | Digit 7 | Digit 7 | Digit 7 | Phono | Digit 7 | Digit 7 |
| 8 | Digit 8 | Digit 8 | Digit 8 | Digit 8 | Digit 8 | Cassette | Digit 8 | Digit 8 |
| 9 | Digit 9 | Digit 9 | Digit 9 | Digit 9 | Digit 9 | Aux | Digit 9 | Digit 9 |
| ACTION | --- | Menu | Action, Menu | Menu | Menu | --- | --- | --- |
| 100/– | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 | Digit 0 |
| ENT | --- | CH Enter | CH Enter | CH Enter | --- | --- | --- | --- |
| GUIDE/SETUP | --- | Guide | Guide | Program | DVD setup | Program | Program | --- |
| INFO/TITLE | TV preview | ⟵ TV | INFO | ⟵ TV | TITLE= Top menu | ⟵ TV | ⟵ TV | ⟵ TV |
| FAVORITE/ SUBTITLE | Favorite CH | --- | Favorite CH | --- | Subtitle | --- | --- | --- |
| ALPHASORT/ AUDIO | --- | --- | Alphasort | --- | Audio | --- | --- | --- |
| MENU/ ENTER | Menu open/ Enter | Select | Select | Enter | Enter | --- | --- | --- |
| ▲▼ | Menu select | Menu select | Menu select | Menu select | Menu select | --- | --- | --- |
| ◄►/FAV ◄► | Menu select/ FAV ◄► | Menu select | Menu select | Menu select | Menu select | --- | --- | --- |
| VOL ▲▼ | Volume up/down* | Volume up/down* | Volume up/down* | Volume up/down* | Volume up/down* | Volume up/down* | Volume up/down* | --- |
| EXIT/ DVD CLEAR | Exit | Exit | Exit | Exit | DVD clear | Exit/Clear | Exit/Clear | Exit/Clear |
| CH ▲▼ | Channel up/down | Channel up/down | Channel up/down | Channel up/down | --- | Channel up/down | --- | --- |
| INPUT | TV/Video select | ⟵ TV | ⟵ TV | VCR input | ⟵ TV | Input | ⟵ TV | ⟵ TV |
| MUTE | Sound mute* | Sound mute* | Sound mute* | Sound mute* | Sound mute* | Sound mute* | Sound mute* | --- |
| RECALL | On-screen display | On-screen display | On-screen display | On-screen display | On-screen display | --- | --- | --- |
| CH RTN/ DVD RTN | Previous channel | Previous channel | Previous channel | Previous channel | DVD return | --- | --- | --- |
| SLOW/ ▶<br>DIR ◀ | ---<br>--- | ---<br>--- | ---<br>--- | Forward<br>--- | Forward<br>Reverse | ---<br>--- | ---<br>--- | ---<br>--- |
| SKIP/ ▶<br>SEARCH ◀ | ---<br>--- | ---<br>--- | ---<br>--- | ---<br>--- | Forward<br>Reverse | CH forward<br>CH reverse | Forward<br>Reverse | Forward<br>Reverse |
| REW | VCR⟶ | VCR⟶ | VCR⟶ | Rewind | Rewind | Rewind | Rewind | Rewind |
| PAUSE/STEP | VCR⟶ | VCR⟶ | VCR⟶ | Pause | Pause | Pause | Pause | Pause |
| PLAY | VCR⟶ | VCR⟶ | VCR⟶ | Play | Play | Play | Play | Play |
| FF | VCR⟶ | VCR⟶ | VCR⟶ | F. Forward | F. Forward | F. Forward | F. Forward | F. Forward |
| TV/VCR | VCR⟶ | Bypass A/B | TV/SAT | TV/VCR | --- | --- | --- | --- |

| DISC AM/FM | --- | --- | --- | --- | Disc shift | AM/FM | Disc shift | Deck side A/B switch |
|---|---|---|---|---|---|---|---|---|
| STOP | VCR ⟶ | VCR ⟶ | VCR ⟶ | Stop | Stop | Stop | Stop | Stop |
| REC | VCR ⟶ | VCR ⟶ | VCR ⟶ | Record | --- | Record | Record | Record |
| PIP CH ▲▼ | PIP channel up/down | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |
| PIP | PIP on/off | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |
| MULTI | Strobe | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |
| STILL | PIP Still | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |
| SWAP | PIP Swap | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |
| LOCATE | PIP Locate | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |
| SOURCE | PIP Source | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV | ⟵ TV |

***Notes:***

- *"---" will send nothing.*
- *"⟵ TV" will jump to TV.*
- *"VCR ⟶" will jump to last active VCR or DVD. Active VCR/DVD is defined as the mode that remains for a minimum of 5 seconds, or if a key is pressed in that mode.*

* *The VOLUME and MUTE will jump to "TV" by default. When the volume is unlocked, all the devices will have their own volume. The AUDIO1/2 (Receiver, CD) modes will have their own volume even if Volume Lock is on TV, CABLE/SAT, VCR, or DVD. See "Using the Volume Lock feature" on page 17.*

## Programming the remote control for use with your audio/video devices

### Device code setup

1. Refer to the Device code table on pages 18–21 to find the code for your device.

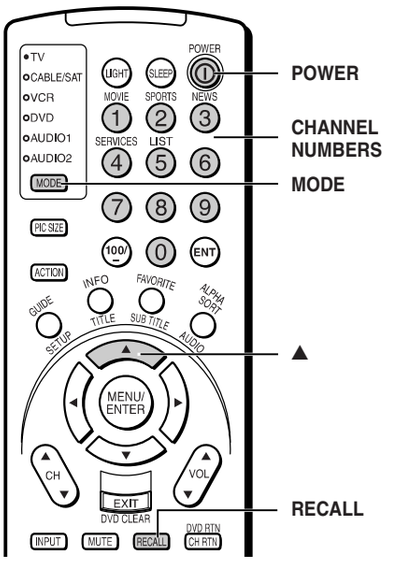
   If more than one code is listed, try each one separately until you find the one that works.
2. Press **MODE** until the mode indicator of the device (CABLE/SAT, VCR, DVD, AUDIO1, AUDIO2) lights up.
3. While holding down **RECALL**, press the **CHANNEL NUMBERS** to enter the four-digit code for your device. Release the buttons.

   If a valid code is entered, the mode indicator will blink twice.

   If an invalid code is entered, there will be one long blink.
4. Point the remote control at the device and press **POWER** to test the code.

   If the device turns on, you have entered the right code.

   If the device does not respond to the remote control, you may have entered an invalid code. Repeat steps 3 and 4 using another code.
5. To control the TV, press **MODE** until TV mode lights up.




***Note:***

- *Every time you replace the batteries, you must reprogram the remote control.*
- *Some newer VCRs are capable of working on either of two remote codes. These VCRs have a switch labeled "VCR1/VCR2."*

  *If your VCR has this kind of switch and does not respond to any of the codes for your VCR brand, set the switch to the other position (VCR1 or VCR2) and reprogram the remote control.*

### Searching and sampling the code of a device (991)

If you do not know the device code for a particular device, you can cycle the remote control through the available codes for that device and sample functions to find the code that operates the device. The keys available to be sampled, provided they are applicable to that mode, are 0, 1, 2, 3, POWER, VOL ▲, CH ▲, PLAY, and STOP. Invalid keys will be ignored while in program mode.

To cycle through each available device code and sample its functions:

1. Press MODE to select the mode you want to set up.
2. While holding down **RECALL**, press 9, 9, 1 in sequence. The remote control will enter program mode.
3. Point the remote control at the device, and then press **POWER** (or other function buttons that are available to be sampled).
4. If the device responds to the remote control:
   Press **RECALL** to store the device code.
   The mode indicator will blink two times, and the remote control will exit the program mode.

   If the device does not respond to the remote control:
   Press ▲, and then press **POWER**.
   Repeat this step until the device responds to the remote control, and then press **RECALL**.

***Note:*** *When a search cycle is done, the mode indicator will blink three times. The remote control will begin to cycle through the available codes again. If no key is pressed within 10 seconds while programming, the remote control will exit the program mode and return to the previous code.*

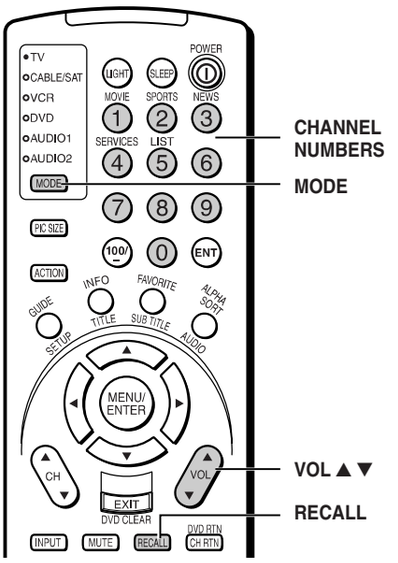
### Verifying the device code (990)

Use this feature to verify the codes for your other devices. The number of blinks after pressing the 1, 2, 3, and 4 buttons is the 4-digit code set up for that mode.

For example, to verify the VCR device code:

1. Press **MODE** to select the VCR mode.
2. While holding down **RECALL**, press 9, 9, 0 in sequence.
3. Press 1 → 0 blinks.
4. Press 2 → 3 blinks.
5. Press 3 → 8 blinks.
6. Press 4 → 5 blinks.

This verifies that the device code of the VCR is "0385."




### Using the Volume Lock feature (993)

For the TV, CABLE/SAT, VCR, and DVD modes, the volume controls (**VOL ▲▼** and **MUTE**) can be programmed (locked) to the selected device mode. This feature does not apply to the AUDIO1/2 modes.

For example, to lock the volume controls to the CABLE/SAT mode:

1. Press **MODE** to select the CABLE/SAT mode.
2. While holding down **RECALL**, press 9, 9, 3 in sequence.
3. Press **VOL ▲**. The Mode indicator will blink two times (locked).

The following table describes the Volume Lock implementation.

| Volume Locked to: | TV | CBL/SAT | VCR | DVD | AUD1 | AUD2 |
|---|---|---|---|---|---|---|
| TV (default) | TV | TV | TV | TV | AUD1 | AUD2 |
| CBL/SAT | CBL/SAT | CBL/SAT | CBL/SAT | CBL/SAT | AUD1 | AUD2 |
| VCR | VCR | VCR | VCR | VCR | AUD1 | AUD2 |
| DVD | DVD | DVD | DVD | DVD | AUD1 | AUD2 |
| AUD1 | AUD1 | AUD1 | AUD1 | AUD1 | AUD1 | AUD1 |
| AUD2 | AUD2 | AUD2 | AUD2 | AUD2 | AUD2 | AUD2 |

To reset the volume controls to the original device code:

1. While holding down **RECALL**, press 9, 9, 3 in sequence.
2. Press **VOL ▼**. The mode indicator will blink four times (unlocked).

### Operational feature Reset (980)

This feature clears all setup features not related to "Device code set up" and resets the Volume Lock to "TV."

To reset the features:

While holding down **RECALL**, press 9, 8, 0 in sequence. The mode indicator will blink two times, and then pause and blink two more times.

## Device code table

### Cable box setup codes

| Brand name | Code number |
|---|---|
| ABC | 0020, 0022, 0026, 0027, 0030, 0032, 0033, 0036 |
| Allegro | 0172, 0334 |
| Americast | 0918 |
| Antronix | 0041, 0226 |
| Archer | 0041, 0172, 0226, 0816 |
| BBT | 0286 |
| Belcor | 0075 |
| Bell & Howell | 0033 |
| Bell South | 0918 |
| Cable Star | 0075 |
| Cabletenna | 0041 |
| Cableview | 0041 |
| Century | 0172 |
| Citizen | 0172, 0334 |
| Colour Voice | 0044, 0050 |
| Comtronics | 0059 |
| Contec | 0038 |
| Digi | 0656 |
| Eastern | 0021 |
| Emerson | 0816 |
| Everquest | 0034, 0059 |
| Focus | 0419 |
| GC Electronics | 0075, 0226 |
| Garrard | 0172 |
| Gemini | 0034, 0089, 0816 |
| General Instrument | 0030, 0295, 0495, 0829 |
| GoldStar | 0059, 0163 |
| Goodmind | 0816 |
| Hamlin | 0028, 0039, 0053, 0278, 0292 |
| Hitachi | 0030 |
| Hytex | 0026 |
| Jasco | 0034, 0172, 0334 |
| Jerrold | 0022, 0030, 0031, 0033, 0034, 0043, 0295, 0495, 0829 |
| Linsay | 0459 |
| Magnavox | 0046 |
| Memorex | 0019 |
| Movie Time | 0082, 0175 |
| NSC | 0082, 0089, 0175 |
| Novaplex | 0637 |
| Oak | 0026, 0038 |
| Optimus | 0040 |
| Panasonic | 0019, 0040, 0126 |
| Panther | 0656 |
| Paragon | 0019 |
| Philips | 0044, 0046, 0050, 0172 |
| Pioneer | 0042, 0163, 0552, 0896 |
| Popular Mechanics | 0419 |
| Prelude | 0789 |
| Pulsar | 0019 |
| Quasar | 0019 |
| RCA | 0040 |
| Radio Shack | 0034, 0334, 0816, 0902 |
| Realistic | 0226 |
| Recoton | 0419 |
| Regal | 0039, 0278, 0292 |
| Regency | 0021 |
| Rembrandt | 0030, 0089 |
| Runco | 0019 |
| SL Marx | 0059 |
| Samsung | 0059, 0163 |
| Scientific Atlanta | 0027, 0036, 0496, 0896 |
| Seam | 0529 |
| Signal | 0034, 0059 |
| Signature | 0030 |
| Sprucer | 0040 |
| StarSight | 0441, 0561 |
| Starcom | 0022, 0034 |
| Stargate | 0034, 0059, 0789, 0816 |
| Starquest | 0034 |
| Sylvania | 0020 |
| TFC | 0329 |
| TV86 | 0082 |
| Tandy | 0277 |
| TeleCaption | 0240 |
| Teleview | 0059 |
| Texscan | 0020 |
| Timeless | 0437 |
| Tocom | 0031, 0032 |
| Toshiba | 0019 |
| Tusa | 0034 |
| Unika | 0041, 0172, 0226 |
| United Artists | 0026 |
| Universal | 0041, 0075, 0172, 0210, 0226 |
| Viewstar | 0046, 0082, 0277 |
| Zenith | 0019, 0073, 0544, 0918 |
| Zentek | 0419 |

### Satellite Receiver setup codes

| Brand name | Code number |
|---|---|
| AlphaStar | 0791 |
| Chaparral | 0072, 0235 |
| Curtis Mathes | 0080 |
| Echostar | 0288, 0299, 0794, 1024 |
| Expressvu | 0794 |
| General Instrument | 0380, 0646, 0888 |
| HTS | 0794 |
| Hitachi | 0838 |
| Homecable | 0257 |
| Hughes Network Systems | 0768 |
| IQ | 0229 |
| IQ Prism | 0229 |
| JVC | 0794 |
| Jerrold | 0380, 0646 |
| Legend | 0288 |
| Macom | 0080 |
| Magnavox | 0741, 0743 |
| Memorex | 0288, 0743 |
| Next Level | 0888 |
| Panasonic | 0720 |
| Philips | 0741, 0743 |
| Primestar | 0380, 0646 |
| RCA | 0162, 0411, 0585, 0874 |
| Radio Shack | 0888 |
| Realistic | 0071 |
| STS | 0229 |
| Sony | 0658 |
| Star Choice | 0888 |
| Toshiba | 0080, 0101, 0768, 0809, 1071, 1072, 1073 |
| Uniden | 0071, 0093, 0257, 0741, 0743 |
| Zenith | 0080, 0875 |

## Device code table

### VCR setup codes

| Brand name | Code number |
|---|---|
| Admiral | 0067, 0228 |
| Adventura | 0019 |
| Aiko | 0297 |
| Aiwa | 0019, 0056, 0326 |
| Akai | 0060, 0072, 0080, 0125 |
| America Action | 0297 |
| American High | 0054 |
| Asha | 0259 |
| Audiovox | 0056 |
| Beaumark | 0259 |
| Bell & Howell | 0123 |
| Broksonic | 0021, 0140, 0203, 0228, 0314, 0380, 0498 |
| CCE | 0091, 0297 |
| Calix | 0056 |
| Canon | 0054 |
| Capehart | 0039 |
| Carver | 0100 |
| Cineral | 0297 |
| Citizen | 0056, 0297 |
| Colt | 0091 |
| Craig | 0056, 0066, 0091, 0259, 0290 |
| Curtis Mathes | 0054, 0060, 0079, 0181 |
| Cybernex | 0070, 0259 |
| Daewoo | 0039, 0064, 0297, 0580 |
| Daytron | 0039 |
| Denon | 0061 |
| Dynatech | 0019 |
| Electrohome | 0056 |
| Electrophonic | 0056 |
| Emerex | 0051 |
| Emerson | 0019, 0021, 0055, 0056, 0062, 0080, 0087, 0107, 0140, 0203, 0227, 0228, 0231, 0297, 0313, 0314, 0380, 0498, 0580 |
| Fisher | 0066, 0073, 0085, 0123 |
| Fuji | 0052, 0054 |
| Funai | 0019 |
| GE | 0054, 0067, 0079, 0221, 0259 |
| Garrard | 0019 |
| Go Video | 0451, 0545, 0662 |
| GoldStar | 0056, 0057 |
| Gradiente | 0019, 0027 |
| HI-Q | 0066 |
| Harley Davidson | 0019 |
| Harman/Kardon | 0057, 0100 |
| Harwood | 0087, 0091 |
| Headquarter | 0065 |
| Hitachi | 0019, 0060, 0061, 0124 |
| Hughes Network Systems | 0061 |
| JVC | 0027, 0060, 0086, 0403 |
| Jensen | 0060 |
| KEC | 0056, 0297 |
| KLH | 0091 |
| Kenwood | 0057, 0060, 0086, 0403 |
| Kodak | 0054, 0056 |
| LXI | 0056 |
| Lloyd's | 0019, 0227 |
| Logik | 0091 |
| MEI | 0054 |
| MGA | 0062, 0080, 0259 |
| MGN Technology | 0259 |
| MTC | 0019, 0259 |
| Magnasonic | 0297 |
| Magnavox | 0019, 0054, 0058, 0100, 0129, 0168 |
| Magnin | 0259 |
| Marantz | 0054, 0100 |
| Marta | 0056 |
| Matsushita | 0054, 0181, 0473 |
| Memorex | 0019, 0054, 0056, 0058, 0065, 0066, 0067, 0123, 0181, 0228, 0259, 0326, 0473, 1056, 1181, 1281 |
| Minolta | 0061, 0124 |
| Mitsubishi | 0062, 0067, 0080, 0086 |
| Motorola | 0054, 0067 |
| Multitech | 0019, 0091 |
| NAD | 0077 |
| NEC | 0057, 0059, 0060, 0086, 0123 |
| Nikko | 0056 |
| Nikon | 0053, 0272 |
| Noblex | 0259 |
| Olympus | 0054 |
| Optimus | 0056, 0067, 0077, 0123, 0181, 0451, 0473, 1067, 1081, 1181, 1281 |
| Optonica | 0081 |
| Orion | 0021, 0203, 0228, 0314, 0498 |
| Panasonic | 0054, 0096, 0181, 0244, 0473, 0635, 1081, 1181, 1281 |
| Penney | 0054, 0056, 0057, 0059, 0061, 0073, 0259 |
| Pentax | 0061, 0124 |
| Philco | 0054, 0228, 0498 |
| Philips | 0054, 0081, 0100, 0129, 0637, 1100, 1200 |
| Pilot | 0056 |
| Pioneer | 0077, 0086 |
| Portland | 0039 |
| Profitronic | 0259 |
| Proscan | 0079, 0221 |
| Protec | 0091 |
| Pulsar | 0058, 0070 |
| Quarter | 0065 |
| Quartz | 0065 |
| Quasar | 0054, 0096, 0181, 0473, 1181 |
| RCA | 0054, 0061, 0067, 0079, 0096, 0124, 0125, 0168, 0221, 0259 |
| Radio Shack | 0019, 1056 |
| Radix | 0056 |
| Randex | 0056 |
| Realistic | 0019, 0054, 0056, 0065, 0066, 0067, 0081, 0085, 0123 |
| ReplayTV | 0633, 0635 |
| Ricoh | 0053, 0272 |
| Runco | 0058 |
| STS | 0061 |
| Samsung | 0064, 0070, 0072, 0259 |
| Sanky | 0058, 0067 |
| Sansui | 0019, 0060, 0086, 0228, 0290, 0498 |
| Sanyo | 0065, 0066, 0123, 0259 |
| Scott | 0062, 0064, 0140, 0203, 0229, 0231 |
| Sears | 0019, 0054, 0056, 0061, 0065, 0066, 0073, 0076, 0085, 0123, 0124 |
| Semp | 0064 |
| Sharp | 0067, 0081 |
| Shintom | 0091 |
| Shogun | 0070, 0259 |
| Singer | 0091 |
| Sony | 0019, 0051, 0052, 0053, 0054, 0272, 1051 |
| Sunpak | 0272 |
| Sylvania | 0019, 0054, 0062, 0100, 0129 |
| Symphonic | 0019 |
| TMK | 0055, 0227, 0259 |
| Tatung | 0060 |
| Teac | 0019, 0060 |
| Technics | 0054, 0181 |
| Teknika | 0019, 0054, 0056 |
| Thomas | 0019 |
| Tivo | 0637 |
| Toshiba | 0062, 0064, 0076, 0085, 0229, 0231, 0385 |
| Totevision | 0056, 0259 |
| Unitech | 0259 |
| Vector | 0064 |
| Vector Research | 0057, 0059 |
| Video Concepts | 0059, 0064, 0080 |
| Videosonic | 0259 |
| Wards | 0019, 0054, 0061, 0066, 0067, 0079, 0081, 0091, 0100, 0168, 0231, 0259 |
| White Westinghouse | 0228, 0297 |
| XR-1000 | 0019, 0054, 0091 |
| Yamaha | 0057 |
| Zenith | 0019, 0052, 0053, 0058, 0228, 0498, 0656 |

## Device code table

### DVD setup codes

| Brand name | Code number |
|---|---|
| Aiwa | 0660 |
| Denon | 0509, 0653 |
| GE | 0541 |
| Harman/Kardon | 0601 |
| JVC | 0577, 0642 |
| Kenwood | 0553 |
| Magnavox | 0522 |
| Marantz | 0558 |
| Mitsubishi | 0540 |
| Onkyo | 0522, 0646 |
| Optimus | 0590 |
| Panasonic | 0509, 0651 |
| Philips | 0522, 0558 |
| Pioneer | 0544, 0590, 0651 |
| Proscan | 0541 |
| RCA | 0541 |
| Samsung | 0592 |
| Sharp | 0649 |
| Sherwood | 0652 |
| Sony | 0552 |
| Technics | 0509 |
| Theta Digital | 0590 |
| Toshiba | 0522 |
| Yamaha | 0509, 0564 |
| Zenith | 0522, 0610 |

### Laser Disc setup codes

| Brand name | Code number |
|---|---|
| Aiwa | 0222 |
| Carver | 0083, 0213, 0342 |
| Denon | 0078, 0191 |
| Disco Vision | 0042 |
| Funai | 0222 |
| Harman/Kardon | 0213 |
| Hitachi | 0042 |
| Magnavox | 0213, 0236 |
| Marantz | 0083, 0213 |
| Mitsubishi | 0078 |
| NAD | 0078 |
| Optimus | 0078 |
| Panasonic | 0223 |
| Philips | 0083, 0213 |
| Pioneer | 0042, 0078 |
| Quasar | 0223 |
| Realistic | 0222 |
| Samsung | 0342 |
| Sega | 0042 |
| Sony | 0212, 0220 |
| Technics | 0223 |
| Theta Digital | 0213 |
| Yamaha | 0236 |

### CD Player setup codes

| Brand name | Code number |
|---|---|
| ADC | 0037 |
| Adcom | 0174, 0253 |
| Aiwa | 0143, 0176 |
| Akai | 0175 |
| Audio Alchemy | 0213 |
| Audio-Technica | 0189 |
| BSR | 0213, 0264 |
| Burmester | 0439 |
| California Audio Labs | 0048, 0322 |
| Carrera | 0213 |
| Carver | 0176, 0198, 0318, 0456 |
| DAK | 0264 |
| DKK | 0019 |
| Denon | 0022, 0892 |
| Emerson | 0174, 0183, 0324, 0488 |
| Fisher | 0107, 0193, 0198, 0361 |
| GE | 0028 |
| Garrard | 0264, 0299, 0412, 0439 |
| Genexxa | 0051, 0183, 0324 |
| Harman/Kardon | 0176, 0192, 0445 |
| Hitachi | 0051, 0174 |
| JVC | 0091 |
| Kenwood | 0047, 0056, 0209, 0645, 0700, 0845 |
| Kodak | 0306 |
| Krell | 0176 |
| Kyocera | 0037 |
| LXI | 0324 |
| Linn | 0176 |
| Luxman | 0112 |
| MCS | 0048 |
| MTC | 0439 |
| Magnavox | 0176, 0324 |
| Marantz | 0048, 0176, 0199 |
| McIntosh | 0306 |
| Mission | 0176 |
| NAD | 0038, 0318 |
| NEC | 0253 |
| NSM | 0176 |
| Nikko | 0183, 0189, 0193 |
| Onkyo | 0120, 0887 |
| Optimus | 0019, 0051, 0056, 0106, 0164, 0198, 0213, 0215, 0299, 0324, 0361, 0439, 0445, 0456, 0487, 1082 |
| Panasonic | 0048, 0322, 0386, 0771 |
| Parasound | 0213, 0439 |
| Philips | 0176, 0306, 0645 |
| Pioneer | 0051, 0263, 0324, 0487, 1082 |
| Proton | 0176 |
| QED | 0176 |
| Quasar | 0048 |
| RCA | 0028, 0072, 0174, 0198, 0324, 0783 |
| Realistic | 0174, 0183, 0198, 0199, 0439 |
| Rotel | 0176, 0439 |
| SAE | 0176 |
| STS | 0037 |
| Sansui | 0176, 0221, 0324 |
| Sanyo | 0106, 0198 |
| Scott | 0174, 0183, 0324 |
| Sears | 0324 |
| Sharp | 0056, 0199, 0880 |
| Sherwood | 0199, 0215, 0445, 1086 |
| Sony | 0019, 0204, 0509, 0623, 0624 |
| Soundesign | 0164 |
| Tascam | 0439 |
| Teac | 0193, 0199, 0412, 0439 |
| Technics | 0048, 0322 |
| Toshiba | 0038, 0318 |
| Vector Research | 0213 |
| Victor | 0091 |
| Wards | 0072, 0176 |
| Yamaha | 0055, 0189, 0206 |
| Yorx | 0480 |

## Device code table

### Amplifier setup codes

| Brand name | Code number |
|---|---|
| Aiwa | 0425 |
| Carver | 0288 |
| Curtis Mathes | 0319 |
| Denon | 0179 |
| GE | 0097 |
| Harman/Kardon | 0911 |
| JVC | 0350 |
| Linn | 0288 |
| Magnavox | 0288 |
| Marantz | 0288 |
| Optimus | 0319, 0414 |
| Panasonic | 0327 |
| Philips | 0288, 0911 |
| Pioneer | 0032, 0319 |
| Realistic | 0414 |
| Sony | 0239, 0708 |
| Soundesign | 0097 |
| Technics | 0327 |
| Toshiba | 0372 |
| Victor | 0350 |
| Wards | 0032, 0097 |
| Yamaha | 0373 |

### Cassette Player setup codes

| Brand name | Code number |
|---|---|
| Aiwa | 0048, 0216, 0219 |
| Akai | 0302 |
| Carver | 0048 |
| Denon | 0095 |
| Fisher | 0093 |
| Garrard | 0327, 0458 |
| Harman/Kardon | 0048, 0201 |
| JVC | 0263, 0292 |
| Kenwood | 0089 |
| Magnavox | 0048 |
| Marantz | 0028, 0048 |
| Mitsubishi | 0302 |
| Onkyo | 0154, 0155, 0301 |
| Optimus | 0046, 0239, 0356, 0458 |
| Panasonic | 0248 |
| Philips | 0048 |
| Pioneer | 0046, 0118, 0239 |
| Revox | 0209 |
| Sansui | 0028, 0048 |
| Sherwood | 0356 |
| Sony | 0189, 0262, 0310 |
| Teac | 0327 |
| Technics | 0248 |
| Toshiba | 0360, 0361 |
| Victor | 0292 |
| Wards | 0046 |
| Yamaha | 0113, 0116 |

### Misc. Audio setup codes

| Brand name | Code number |
|---|---|
| Aiwa | 0029, 0178, 0423 |
| Fisher | 0071 |
| Harman/Kardon | 0496 |
| JBL | 0496 |
| JVC | 0092 |
| Jerrold | 0478, 0539 |
| Nikko | 0395 |
| Paramount Pictures | 0336 |
| RCA | 0075 |
| SSI | 0336 |
| Schneider | 0395 |
| Scientific Atlanta | 0479 |
| Sony | 0029, 0178, 0595 |
| Soundesign | 0395 |
| Starcom | 0478 |
| Yorx | 0395 |

### Receiver setup codes

| Brand name | Code number |
|---|---|
| ADC | 0550 |
| Adcom | 0635 |
| Aiwa | 0140, 0177, 0208, 0424, 1108, 1424 |
| Akai | 0095, 0243 |
| Capetronic | 0550 |
| Carver | 0027, 0061, 0208, 0379, 1108, 1208 |
| Casio | 0214 |
| Clarinette | 0214 |
| Curtis Mathes | 0099 |
| Denon | 0023, 0292, 0790, 1123, 1179 |
| Emerson | 0443 |
| Fisher | 0061, 0238, 0379 |
| Garrard | 0443, 0482 |
| Harman/Kardon | 0129, 0208, 0910 |
| Inkel | 0081 |
| JBL | 0129 |
| JVC | 0093 |
| Kenwood | 0046, 0061, 0096, 0205, 0332, 0333, 1046, 1071, 1332, 1588 |
| Koss | 0443 |
| LXI | 0200 |
| Linn | 0208 |
| Lloyd's | 0214 |
| MCS | 0058, 0365 |
| Magnavox | 0147, 0208, 0214, 0410, 0550, 1108, 1208 |
| Marantz | 0058, 0147, 0208, 1108, 1208 |
| Modulaire | 0214 |
| NAD | 0339 |
| NEC | 0254 |
| Nakamichi | 0116, 0366 |
| Onkyo | 0119, 0154, 0399 |
| Optimus | 0061, 0099, 0196, 0200, 0205, 0238, 0550, 0689, 0757, 0820, 1042 |
| Panasonic | 0058, 0328, 0537, 1537 |
| Penney | 0214 |
| Philips | 0208, 0410, 1108, 1208 |
| Pioneer | 0033, 0099, 0169, 0550, 0649, 1042 |
| Proscan | 1273 |
| Quasar | 0058 |
| RCA | 0073, 0365, 0379, 0549, 0550, 1173, 1273 |
| Realistic | 0182, 0200, 0214 |
| Sansui | 0208, 0212, 0365, 1108 |
| Sanyo | 0238, 0820 |
| Scott | 0182, 0341 |
| Sharp | 0205 |
| Sherwood | 0081, 0510, 0521 |
| Sony | 0177, 0187, 0493, 1061, 1077, 1177, 1277 |
| Soundesign | 0689 |
| Sunfire | 0332, 0333, 1071, 1332 |
| Teac | 0182, 0482 |
| Technics | 0058, 0227, 0328, 0537, 1327, 1328, 1537 |
| Thorens | 1208 |
| Victor | 0093 |
| Wards | 0033, 0073, 0099, 0177, 0208 |
| Yamaha | 0195, 0205, 1195 |
| Yorx | 0214 |
| Zenith | 0876 |

## Learning about the remote control

Only the buttons that are used to operate the TV set are described here.

**POWER** turns the TV on or off

**SLEEP** sets the TV to turn off at a specific time (page 39)

**LIGHT** The initial press of the LIGHT button causes two actions:
1) enables the illumination mode
2) illuminates the keypad.
Subsequent presses of the LIGHT button cause the Illumination mode to toggle between enabled and disabled. Any keypress illuminates the keypad for 5 seconds.
If in programming mode, the keypad will remain lit for 10 seconds.
When disabled, pressing the LIGHT button enables the illumination mode and lights the keypad.

**Channel Numbers (0-9, 100)** allow direct access to channels (pages 24, 25)

**MODE** cycles through the 6 device modes (TV, CABLE/SAT, VCR, DVD, AUDIO1, AUDIO2).

**MENU/ENTER** allows access to programming and sets programming menu information (page 23)

▲▼◄► selects or adjusts programming menus (page 23)

◄► **(FAVORITE)** selects your favorite channels (page 26)

**VOL** ▲▼ adjusts the volume level

**EXIT** sets programming menu information and exits programming menus (page 23)

**CH** ▲▼ cycles through programmed channels (page 24)

**CH RTN** (Channel Return) returns to the last viewed channel (page 26)

**RECALL** displays on-screen information(page 39)

**MUTE** mutes the sound (page 41)

**INPUT** selects video input source (page 24)

**PIP Buttons** allow access to PIP functions (page 36)

**PIP** turns the PIP on and off

**PIP CH** ▲▼ selects the PIP channels

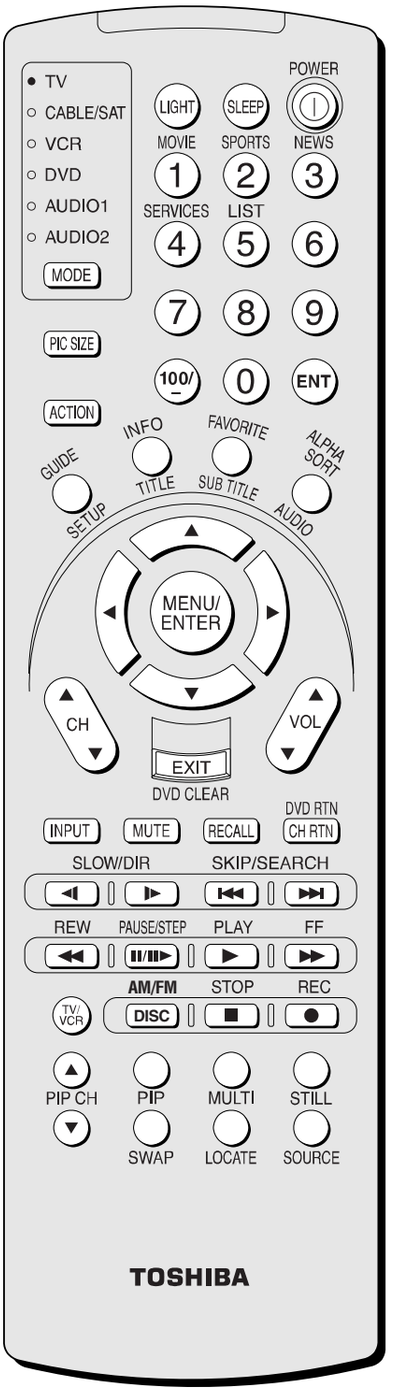
**INFO** allows access to the Multi-Window function

**STILL** freezes the PIP display

**SOURCE** selects the PIP source

**LOCATE** changes the location of the PIP window

**SWAP** switches the PIP and main pictures

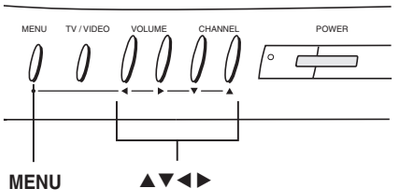


# Setting up your TV

After you have installed the batteries and programmed the remote control, you will need to set some preferences on your TV using the menu system. You can access the menus using the buttons on your TV or remote control.

- When you make a menu selection, your changes occur immediately. You do not have to press **MENU** or **EXIT** to save your changes. **Note:** The TV front panel does not have an **EXIT** button.
- When you are finished programming the menus, you can press **EXIT** to clear the on-screen display, or wait 15 seconds and the on-screen display will disappear automatically. Your changes are automatically saved either way.

TV Front Panel

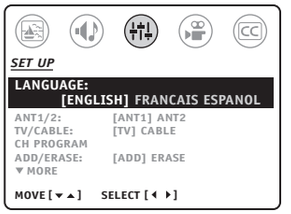


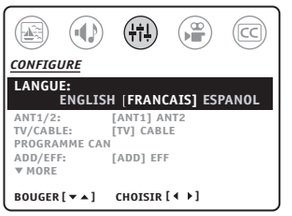

## Changing the on-screen display language

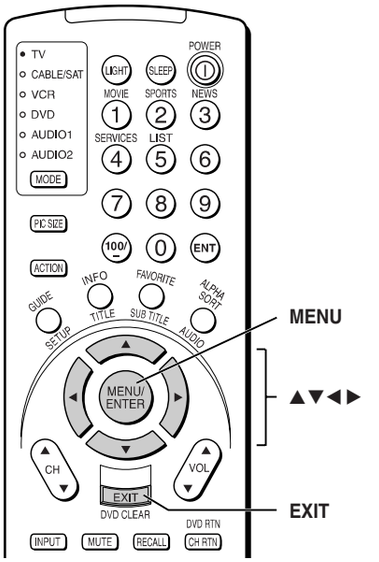
You can choose from three different languages (English, French, and Spanish) for the on-screen displays of menus and messages.

**To select an on-screen display language:**

1. Press **MENU** .
2. Press ◄ or ► until the SET UP menu appears.
3. Press ▲ or ▼ to highlight LANGUAGE.
4. Press ◄ or ► to highlight your desired language.



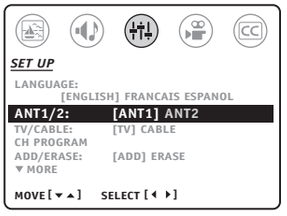




## Selecting the antenna input

You can connect to one of two different antenna input sources using the antenna input (ANT 1 or ANT 2).

**To select the antenna input:**

1. Press **MENU** .
2. Press ◄ or ► to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight ANT 1/2.
4. Press ◄ or ► to highlight either ANT 1 or ANT 2, depending on the antenna terminal you wish to use.



## Selecting the signal source

Use the **INPUT** button on the remote control (or the **TV/VIDEO** button on the TV) to monitor or change the signal source connected to your TV.

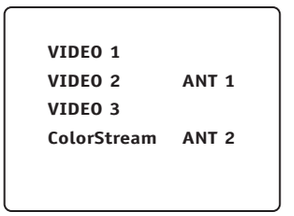
**To monitor the signal source:**

Press **INPUT** (or **TV/VIDEO**) once. The current signal source displays in green.

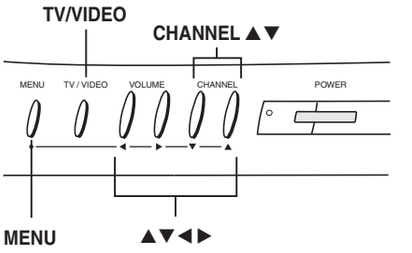
**To change the signal source:**

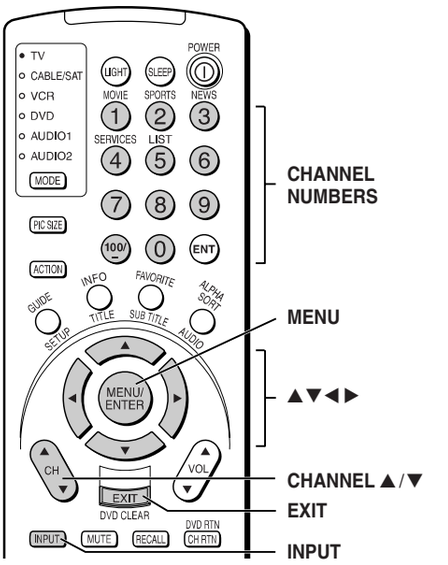
Repeatedly press **INPUT** (or **TV/VIDEO**). The selected signal source displays in green.

Pressing INPUT
on the remote control




Pressing TV/VIDEO
on the TV




## Adding channels to the TV's memory

When you press **CHANNEL ▲/▼** on the TV or remote control, the TV stops only on the channels stored in the TV's memory.

**Note:** To tune the TV to a channel not programmed in the TV's memory, use the **CHANNEL NUMBERS** on the remote control.

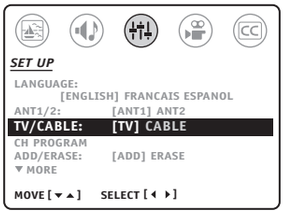
Follow the steps below and on the next page to program channels into the TV's memory.

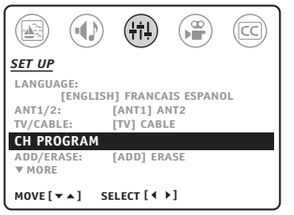
### Programming channels automatically

Your TV can automatically detect all active channels in your area and store them in the TV's memory. After the channels are stored automatically, you can manually add or erase individual channels (see page 25). If you use both ANT-1 and ANT-2 terminals, you will need to program channels for each input source.

**To program channels automatically:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight TV/CABLE.
4. Press ◄ or ► to highlight TV (if you use an antenna) or CABLE (if you use cable).
5. Press ▼ to highlight CH PROGRAM.



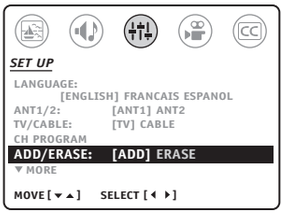

6. Press ◄ or ► to start automatic channel programming ("CH PROGRAM" displays on-screen). The TV automatically cycles through every TV or cable channel (depending on which you selected), and stores all active channels in the TV's memory.
7. When automatic channel programming is complete, the message "CH Programming Completed" appears.
8. Press **CHANNEL ▲/▼** to view the programmed channels.

### Adding and erasing channels manually

After you have automatically programmed the channels into the TV's memory, you can manually add and erase individual channels.

**To add a channel to or erase a channel from the TV's memory:**

1. Tune the TV to the channel you want to add or erase. If you are adding a channel, you will need to use the **CHANNEL NUMBERS** to select the channel.
2. Press **MENU**.
3. Press ◄ or ► to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight ADD/ERASE.




5. Press ◄ or ► to highlight ADD or ERASE, whichever function you want to perform.
6. Press **MENU**.
7. Repeat steps 1–6 for other channels you want to add or erase, or press **EXIT** to return to normal TV viewing.

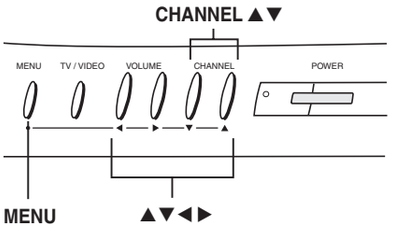
## Changing channels

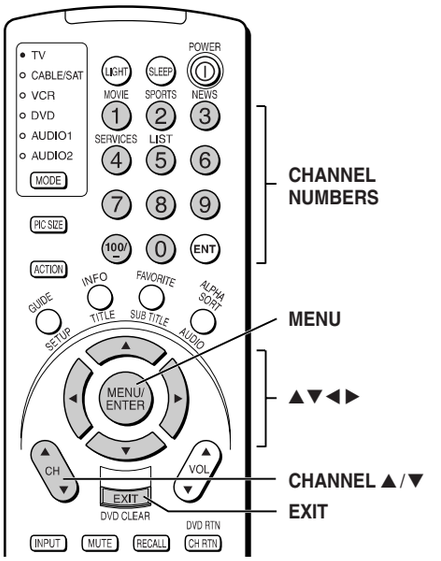
**To change to the next programmed channel:**

Press **CHANNEL ▲/▼**.

**To change to a specific channel (programmed or unprogrammed):**

Press the **CHANNEL NUMBERS** (0–9 and 100).
**Note:** For channels 100 and higher, press the 100 button, and then the next two channel numbers (for example, to select channel 100, press 100, 0, 0; to select channel 125, press 100, 2, 5).



# Using the TV's features

## Adjusting the channel settings

### Switching between two channels

You can switch between two channels without entering an actual channel number each time.

**To switch between two channels:**

1. Select the first channel you want to view.
2. Select a second channel using the **CHANNEL NUMBERS** (0–9 and 100).
3. Press **CH RTN** (channel return). The previous channel will display.

Every time you press **CH RTN**, the TV will switch back and forth between the last two channels you tuned the TV to.

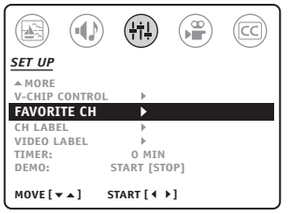
### Programming your favorite channels

The Favorite Channel feature allows you to use the ◄/► (**FAVORITE**) buttons on the remote control to cycle through your favorite channels, skipping over channels you do not normally watch. You can program a maximum of 12 favorite channels.

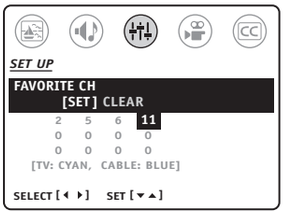
**Note:** You can still use **CHANNEL ▲/▼** to cycle through all the channels you previously programmed into the TV's memory (see "Adding channels to the TV's memory" on page 24).

**To program your favorite channels:**

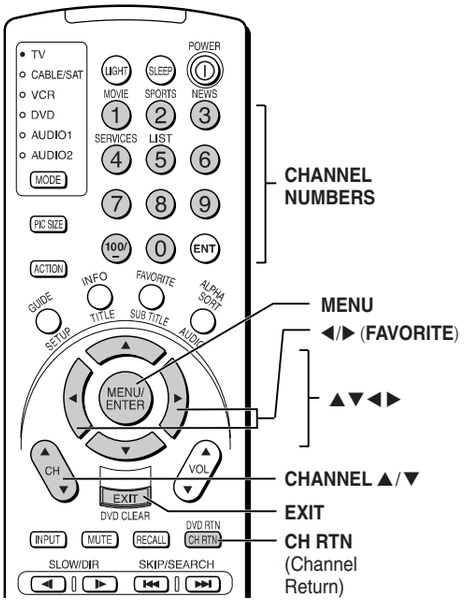
1. Tune the TV to a channel you want to program as a favorite channel.
2. Press **MENU**.
3. Press ◄ or ► to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight FAVORITE CH.




5. Press ◄ or ► to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
6. Press ◄ or ► to highlight SET.
7. Press ▼ to add the current channel to the list.
8. Press **MENU**.




9. Repeat steps 1–8 for a maximum of 12 channels, or press **EXIT** to close the menu.



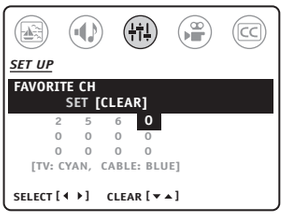
**To select your favorite channels:**

Press the ◀/▶ (**FAVORITE**) buttons on the remote control to cycle through the favorite channels you programmed.

**Note:** The Favorite Channel feature will not work unless you program at least one favorite channel.

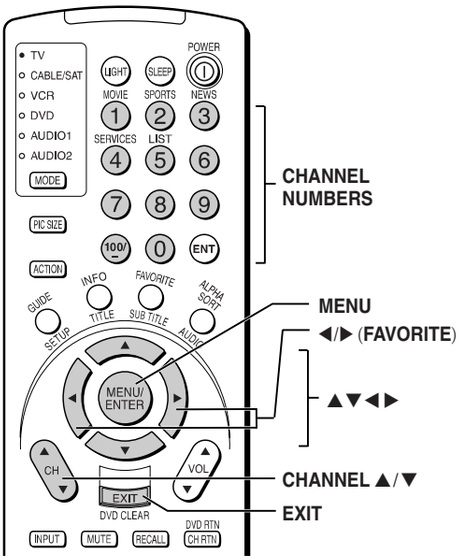
**To clear a favorite channel:**

1. Tune the TV to the channel you want to clear from your favorite channel list.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight FAVORITE CH.
5. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight CLEAR.




7. Press ▼ to clear the current channel number from the list.
8. Press **MENU**.
9. Repeat steps 1–8 for other channels you want to clear from your favorite channel list, or press **EXIT** to close the menu.

***Note:***
*The ◀/▶ (**FAVORITE**) buttons function as menu ◀/▶ buttons when a menu is on-screen.*




## Using the V-Chip menu

You can use the V-Chip feature to block certain programs or channels to prevent others from viewing them.

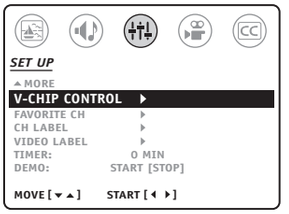
### Selecting a PIN code

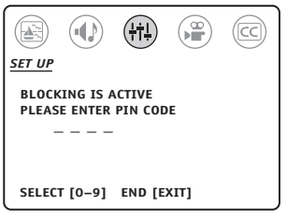
Before you can block programs and channels, you need to select a personal identification number (PIN) code. The PIN code you select allows you to access the V-Chip menu and prevents others from changing the rating and blocking limits you set.

**To select your PIN code and access the V-Chip menu:**

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.

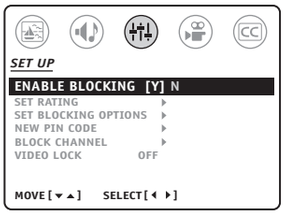
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◄ or ► to display the Enter PIN Code screen.

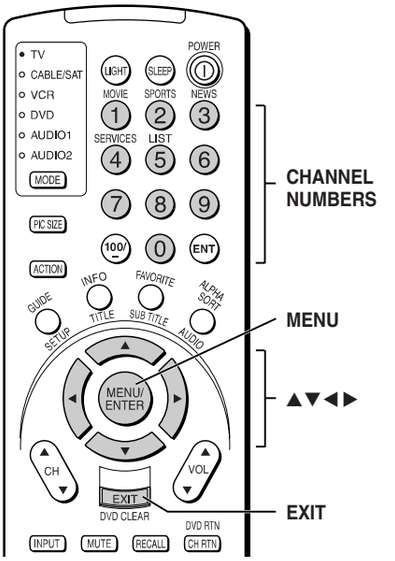



5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◄ or ► to highlight "Y," which enables all blocking by activating the V-Chip. See "Blocking programs by ratings" on page 29, "Blocking unrated movies or programs" on page 31, and "Blocking channels" on page 32.

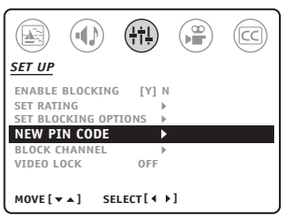
   (**Note:** Highlight "N" to deactivate the V-Chip and disable blocking.)

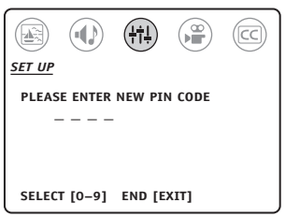



## Changing your PIN code

1. Press **MENU**.
2. Press ◄ or ► to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◄ or ► to display the Enter PIN Code screen.
5. Use the Channel Number buttons (0–9) to enter your existing PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight NEW PIN CODE.
7. Press ◄ or ► to display the New PIN Code screen.




8. Use the **CHANNEL NUMBERS** (0–9) to enter a new code. After the new code is entered, the V-Chip Control menu appears.
9. Press **EXIT** to return to normal TV viewing.

***Note:***

*If you forget your PIN code:*

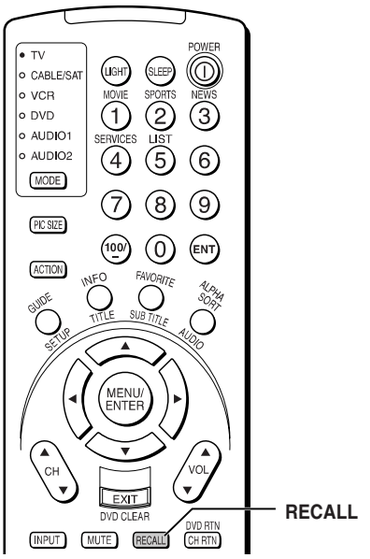
- *Follow steps 1–4 under "Changing your PIN code" at left.*
- *Then press **RECALL** four times within five seconds.*

*This allows you to proceed to the V-Chip Control menu and reset your PIN code.*

## Blocking programs by ratings

The Motion Picture Association of America (MPAA) uses a rating system to qualify motion picture content. Television broadcasters employ a similar rating system to qualify the content of television programs. The MPAA, Youth TV, and TV ratings work with the V-Chip feature to allow you to block access to programs that exceed the rating limits you set.

***Note:***
*Press **RECALL** to see the rating of the program you are viewing.*




## Ratings definitions

### MPAA Ratings

| | |
|---|---|
| X | For adults only. |
| NC17 | Not intended for anyone 17 or under. |
| R | Restricted. Under 17 requires an accompanying parent or adult guardian. |
| PG13 | Parents strongly cautioned. Some material may not be appropriate for children under 13. |
| PG | Parental guidance suggested. Some material may not be appropriate for children. |
| G | General audience. Appropriate for all ages. |

### Youth TV Ratings

| | |
|---|---|
| Y7, Y7FV | Directed to older children. Programs rated Y7 are designed for children 7 and above. Programs in which fantasy violence may be more intense or combative than other programs in this category are rated Y7FV. |
| Y | For all children. Programs rated Y are designed to be appropriate for all children. |

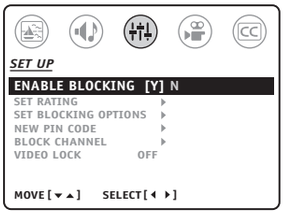
### TV Ratings

| | | |
|---|---|---|
| MA | Mature audience only. This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17. | |
| | Language | Crude or indecent language. |
| | Sex | Explicit sexual activity. |
| | Violence | Graphic violence. |
| 14 | Parents strongly cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age. | |
| | Dialog | Intensely suggestive dialog. |
| | Language | Strong, coarse language. |
| | Sex | Intense sexual situations. |
| | Violence | Intense violence. |
| PG | Parental guidance suggested. This program contains material that parents may find unsuitable for younger children. | |
| | Dialog | Some suggestive dialog. |
| | Language | Infrequent coarse language. |
| | Sex | Some sexual situations. |
| | Violence | Moderate violence |
| G | General audience. Most parents would find this program suitable for all ages. | |
| No DLSV | Programs without any Dialog, Language, Sex, or Violence ratings. | |

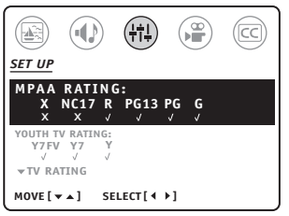
## Blocking programs by ratings (cont.)

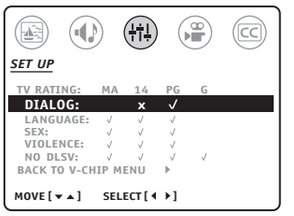
**To block programs by rating:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◄ or ► to display the Enter PIN Code screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◄ or ► to highlight "Y," which enables all blocking by activating the V-Chip.
   (**Note:** Highlight "N" to deactivate the V-Chip and disable blocking.)



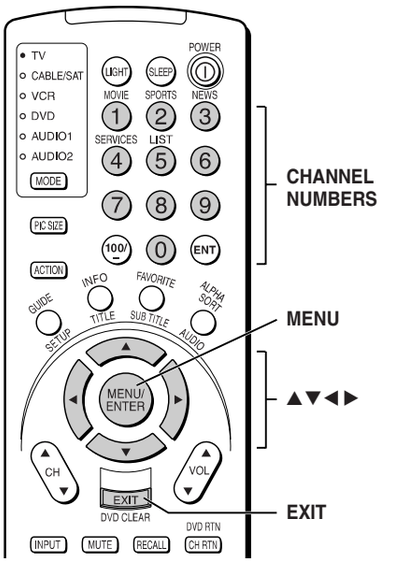

8. Press ▲ or ▼ to highlight SET RATING.
9. Press ◄ or ► to display the Set Rating menu.
10. Press ▲ or ▼ to highlight MPAA Rating, Youth TV Rating, or TV Rating.
11. Press ► to select (or ◄ to deselect) the ratings to be blocked. Blocked ratings are signified with the symbol "**x**." Unblocked ratings are signified with the symbol "✔." As you block ratings, all ratings higher than the ones you select are blocked as well. For example, if you block the MPAA rating R, the higher ratings NC17 and X will also be blocked.



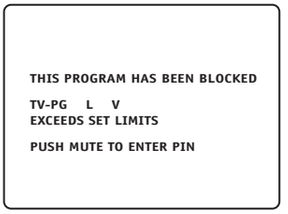

12. When you finish selecting the ratings to be blocked:
    - To return to the V-Chip menu, press ▲ or ▼ to highlight BACK TO V-CHIP MENU, and then press ◄ or ►.
    - To return to normal TV viewing, press **EXIT**.

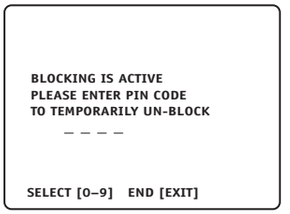
***Note:***
*Not all programs are rated. To block programs or movies that are unrated, see "Blocking unrated movies and programs" on page 31.*



## Unblocking programs temporarily

When you try to view a program with a ratings block, a message appears stating that the program has been blocked because the program's rating exceeds the set limits. To temporarily override the block and view the program, press **MUTE** and enter your PIN code. To reset your original ratings blocks, turn the TV off and then on again.



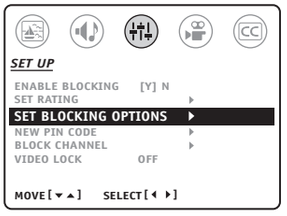

## Blocking unrated movies and programs

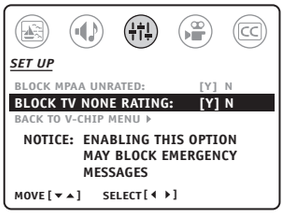
Some movies and programs are not rated. You can use the V-Chip to block unrated movies and programs.

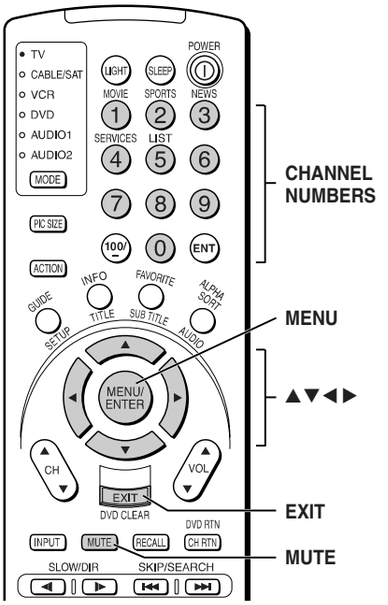
**To block unrated movies and programs:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◄ or ► to display the Enter PIN Code screen.
5. Use the Channel Number buttons (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, select a four-digit number to be your PIN code. After the PIN code is entered, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight ENABLE BLOCKING.
7. Press ◄ or ► to highlight "Y," which enables all blocking by activating the V-Chip.

   (**Note:** Highlight "N" to deactivate the V-Chip and disable blocking.)
8. Press ▲ or ▼ to highlight SET BLOCKING OPTIONS.
9. Press ◄ or ► to display the unrated movie/program blocking menu.
10. Press ▲ or ▼ to highlight BLOCK TV NONE RATING.
11. Press ◄ or ► to highlight "Y" to block movies/programs rated "TV None." (**Note:** Highlight "N" to unblock unrated programs.)
12. Press **EXIT** to return to normal TV viewing.





SET UP
BLOCK MPAA UNRATED: [Y] N
BLOCK TV NONE RATING: [Y] N
BACK TO V-CHIP MENU
NOTICE: ENABLING THIS OPTION MAY BLOCK EMERGENCY MESSAGES
MOVE[▼▲] SELECT[◄ ►]

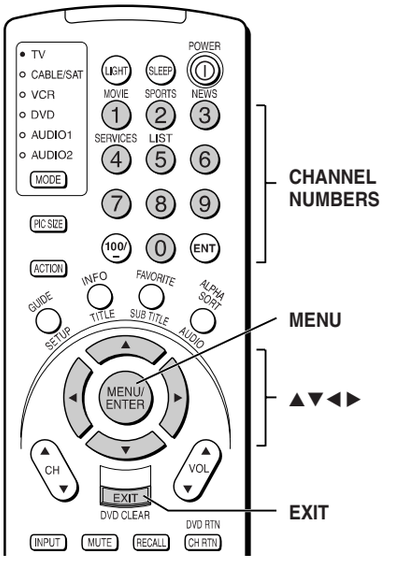



***Caution:***

*Blocking unrated television programs (with a rating of "TV NONE") may block emergency messages.*

## Blocking channels

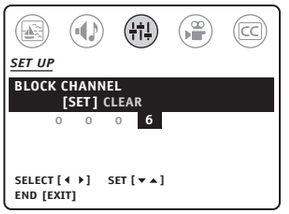
You can block a maximum of four TV channels and four cable channels. Blocked channels cannot be viewed regardless of their ratings. If you try to display a blocked channel, the TV will display the nearest unblocked channel.




**To block a channel:**

1. Tune the TV to the channel you want to block.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight V-CHIP CONTROL.
5. Press ◀ or ▶ to display the Enter PIN Code screen.
6. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, choose a four-digit number to be your PIN code. After entering the code, the V-Chip Control menu appears.
7. Press ▲ or ▼ to highlight ENABLE BLOCKING.
8. Press ◀ or ▶ to highlight "Y," which enables all blocking by activating the V-Chip.

   (**Note:** Highlight "N" to deactivate the V-Chip and disable blocking.)
9. Press ▲ or ▼ to highlight BLOCK CHANNEL.
10. Press ◀ or ▶ to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
11. Press ◀ or ▶ to highlight SET.
12. Press ▼ to add the current channel to the list.
13. Press **MENU**.




14. Press **EXIT**.
15. Repeat steps 1–14 to block additional channels.

***Note:***

*After programming CHANNEL BLOCK, tune the TV to a channel that is not blocked before turning it off.*

**To unblock all blocked channels:**

**Note:** This will unblock every channel you have blocked. You cannot unblock individual channels.

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◀ or ▶ to display the Enter PIN Code screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, choose a four-digit number to be your PIN code. After entering the code, the V-Chip Control menu appears.

6. Press ▲ or ▼ to highlight BLOCK CHANNEL.
7. Press ◄ or ► to display the BLOCK CHANNEL menu. SET/CLEAR will be highlighted.
8. Press ◄ or ► to highlight CLEAR.
9. Press ▼ to clear all blocked channels from the list.
10. Press **MENU**.
11. Press **EXIT** to return to normal TV viewing.

## Locking video inputs

You can use the Video Lock feature to block the input sources (Video 1, Video 2, Video 3, and ColorStream) and channels 3 and 4.

**Note:** The Video Lock feature is independent of the Enable Blocking option of V-Chip control.

**The Video Lock options are:**

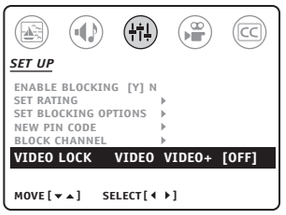
Video: Blocks Video 1, Video 2, Video 3, and ColorStream.

Video+: Blocks Video 1, Video 2, Video 3, ColorStream, and channels 3 and 4.

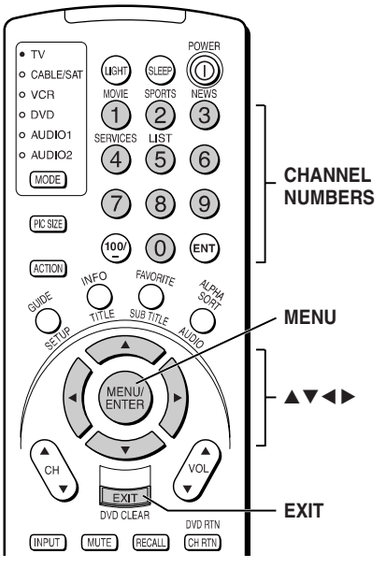
Off: Disables the Video Lock feature.

**To set up video lock:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight V-CHIP CONTROL.
4. Press ◄ or ► to display the Enter PIN Code screen.
5. Use the **CHANNEL NUMBERS** (0–9) to enter your PIN code. If you are accessing the V-Chip menu for the first time, choose a four-digit number to be your PIN code. After entering the code, the V-Chip Control menu appears.
6. Press ▲ or ▼ to highlight VIDEO LOCK.
7. Press ◄ or ► to select the desired level of video locking (Video, Video+, or Off).




8. Press **EXIT** to return to normal TV viewing.

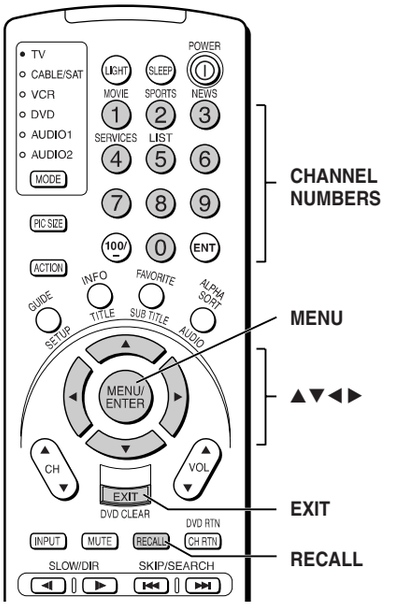



***Note:***

*In normal TV viewing, if you cannot access the input sources (Video 1, Video 2, Video 3, and ColorStream) or channels 3 and 4, check the Video Lock setting and highlight OFF if necessary.*

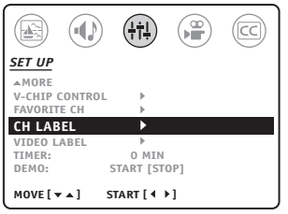
## Channel labels

A channel label displays on the screen above the channel number every time you turn the TV on, change the channel, or press **RECALL**. You can assign labels to a maximum of 32 channels. You can choose up to four characters for a channel label.

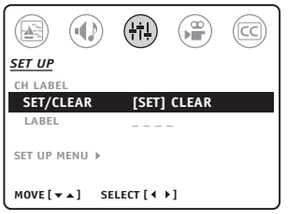


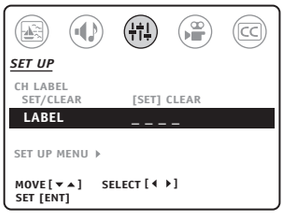

**To create a channel label:**

1. Tune the TV to the channel you want to label.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight CH LABEL.




5. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight SET.
7. Press ▼ to highlight LABEL.




8. Press ◀ or ▶ repeatedly to scan through the list of available characters until the desired character appears in the first space.
9. Press **MENU**.
10. Repeat steps 8 and 9 to enter the rest of the characters.

    **Note:** For a blank space in the label name, you must choose an empty space from the list of characters; otherwise, a dash will appear in the space.
11. Repeat steps 1–10 for a maximum of 32 channels.
12. Press **EXIT** to return to normal TV viewing.

**To erase a channel label:**

1. Select the channel whose label you want to erase.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the SET UP menu.
4. Press ▲ or ▼ to highlight CH LABEL.
5. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.
6. Press ◀ or ▶ to highlight CLEAR.
7. Press **MENU**.
8. Repeat steps 1–7 to erase other channel labels, or press **EXIT** to return to normal TV viewing.

## Video labels

The Video Label feature allows you to label each input source for your TV from the following preset list of labels:

–: Uses the default label name

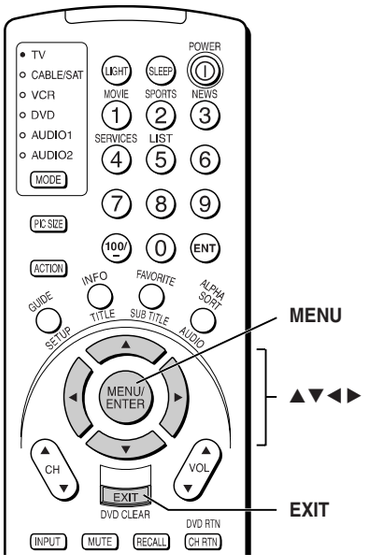
VCR: Video cassette recorder

DVD: Digital video disc or digital versatile disc

DTV: Digital TV set-top box

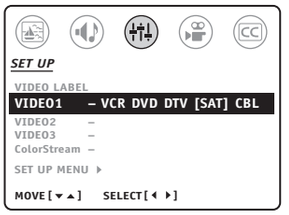
SAT: Satellite box

CBL: Cable box




**To set up video labels:**

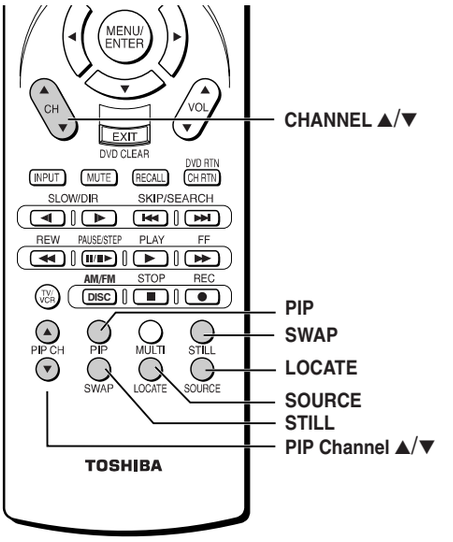
1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight VIDEO LABEL.
4. Press ◀ or ▶ to display the Video Label screen.
5. Press ▲ or ▼ to highlight the input source to be labeled (VIDEO 1, VIDEO 2, VIDEO 3, or ColorStream).
6. Press ◀ or ▶ to select the desired label for that input source.




7. Repeat steps 1–6 to label the other input sources.
8. When you finish setting up video labels:
   - To return to the previous menu, press ▲ or ▼ to highlight SET UP MENU, and then press ◀ or ▶.
   - To return to normal TV viewing, press **EXIT**.

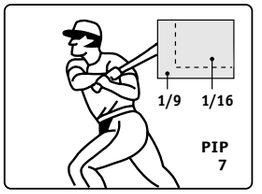
## Watching picture-in-picture (PIP)

The picture-in-picture (PIP) feature allows you to watch two pictures at the same time. The small PIP window can display a signal from a TV broadcast or an external source, such as a VCR.




**To display a TV broadcast in the PIP window:**

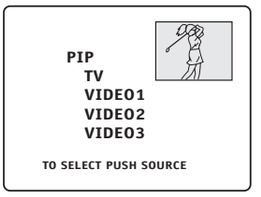
1. Tune the TV to the program you want to watch in the main window.
2. Press **PIP** to display a small picture (one press displays a PIP window 1/9 the size of the screen; two presses display a 1/16-size window).




3. Press **PIP Channel ▲/▼** to change the PIP window channel. Press **Channel ▲/▼** to change the main window channel.

**To display an external source in the PIP picture:**

1. Connect the external equipment through the ANT-1 connection on the TV (an ANT-2 source will not display as a PIP). For connection information, see "Connecting your TV" on page 8.
2. Turn on the TV and select the program/source you want to watch in the main window.
3. Press **PIP** to display a small picture (one press displays a PIP window 1/9 the size of the screen; two presses display a 1/16-size window).
4. Press **SOURCE** to select the PIP input source (TV, VIDEO 1, VIDEO 2, or VIDEO 3). The current source will display on-screen in green.




***Note:***

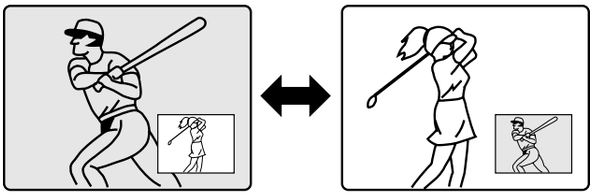
*The PIP window will not open when a ColorStream (component video) source is being viewed.*

**To turn PIP off:**

Press **PIP** one or two times, depending on the size of the small picture screen you selected.

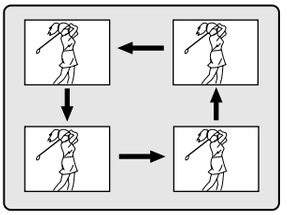
## Switching the main and small pictures

With the TV in PIP mode, repeatedly press **SWAP** to switch the main and small pictures back and forth.



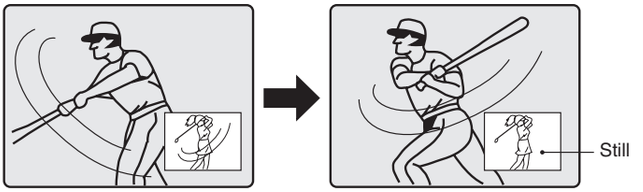
### Changing the location of the PIP window

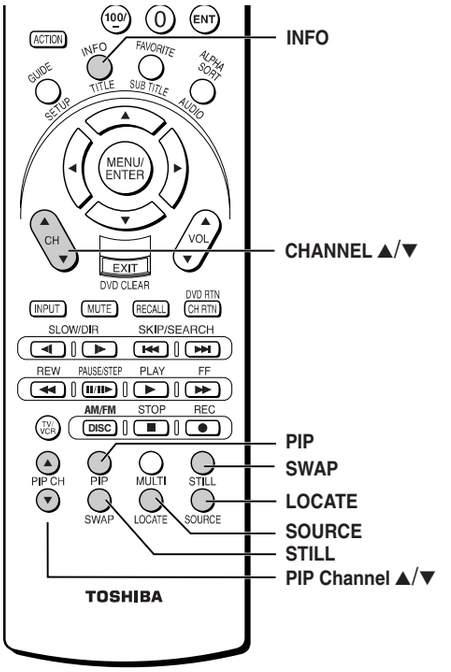
With the TV in PIP mode, press **LOCATE** to change the location of the PIP window on-screen. Every time you press **LOCATE**, the PIP window changes position counter-clockwise.



### Freezing the PIP display

With the TV in PIP mode, press **STILL** to freeze the PIP display. The PIP picture becomes still and is outlined in red on-screen. Press **STILL** again to restore the moving picture (outlined in green).




## Watching multi-window PIP

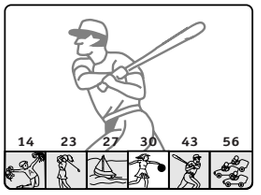
Multi-window PIP appears as six small boxes across the bottom of the screen. The multi-window PIP displays only the channels you programmed into the TV's memory (see "Adding channels to the TV's memory" on page 24).

**Note:** The **LOCATE**, **SWAP**, **PIP CHANNEL ▲▼**, **SOURCE**, and **STILL** buttons do not function in multi-window PIP mode.

**To view multi-window PIP:**

Press **INFO**.

The TV cycles through all of the programmed channels, showing a few seconds of each channel's programming, and then freezes the image and moves on to the next channel in a continuous cycle. The channel number appears above each small PIP window.




**To turn multi-window PIP off:**

Press **INFO** again or change the channel.

***Note:***

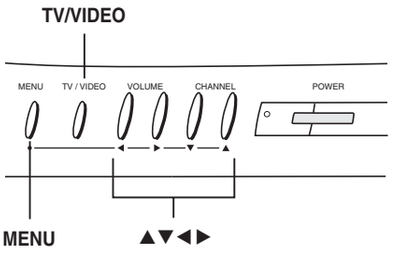
*Multi-window PIP displays channels programmed for the signal source you are currently viewing (ANT-1 or Cable). See "Adding channels to the TV's memory" on page 24.*

*If V-Chip blocking is enabled when you view multi-window PIP, the channels exceeding the rating limits will appear as a black window with a red "X."*

# Adjusting the picture

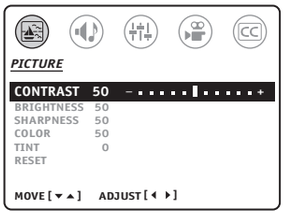
## Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the contrast, brightness, sharpness, color, and tint. Your picture quality adjustments are stored automatically in the TV's memory. You can keep these settings or choose preset options under the PREFERENCES menu. (See "Selecting the color temperature" below, and "Adjusting the picture preference" on the next page.)



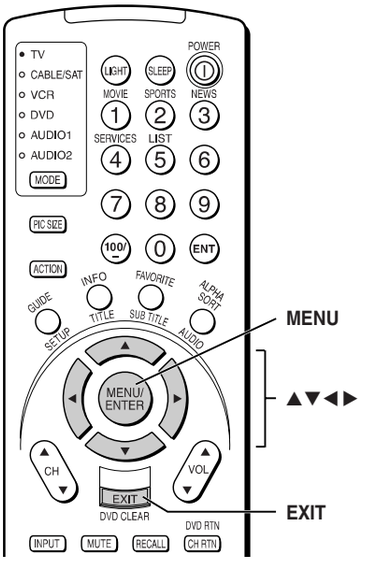

**To adjust the picture quality:**

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PICTURE menu.
3. Press ▲ or ▼ until the quality you want to adjust is highlighted.




4. Press ◀ or ▶ to adjust the level.

| Selection | ◀ Pressing ▶ | |
|---|---|---|
| Contrast | Lower | Higher |
| Brightness | Darker | Lighter |
| Sharpness | Softer | Sharper |
| Color | Paler | Deeper |
| Tint | Reddish | Greenish |




***Note:***

*To reset the picture adjustments to the factory settings, select RESET in the PICTURE menu.*

## Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures: cool, medium, and warm.

| Mode | Picture Quality |
|---|---|
| Cool | Blueish |
| Medium | Neutral |
| Warm | Reddish |

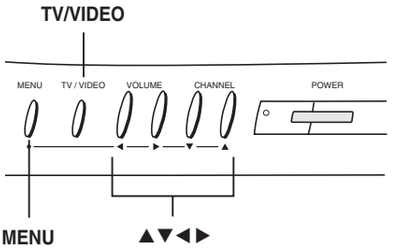
**To select the color temperature:**

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the PREFERENCES menu.
3. Press ▲ or ▼ to highlight COLOR TEMPERATURE.
4. Press ◀ or ▶ to highlight the mode you prefer.

### Adjusting the picture preference

You can select the picture type from four picture modes—Sports, Standard, Movie, and Memory, as described in the following table:

| Mode | Picture Quality |
|---|---|
| Sports | Bright and dynamic picture (factory-set) |
| Standard | Standard picture quality (factory-set) |
| Movie | Movie-like picture setting (factory-set) |
| Memory | Your personal preferences (set by you; see "Adjusting the picture quality" on page 38.) |



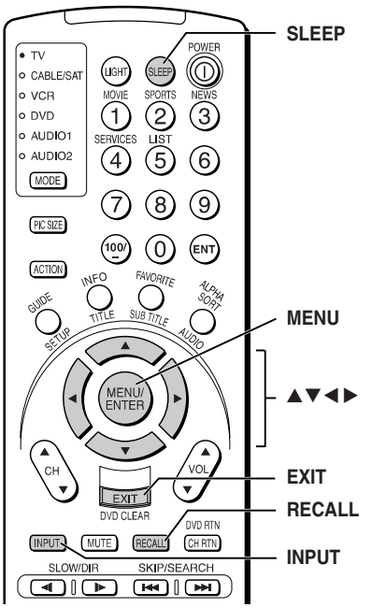

**To select your picture preference:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the Preferences ("PREFER") menu.
3. Press ▲ or ▼ to highlight PICTURE PREFERENCE.
4. Press ◄ or ► to highlight the mode you prefer.

## Displaying on-screen information

Press **RECALL** to display the following information on-screen:

- Antenna mode (when in TV mode)
- Channel number or video mode
- Channel label (if set)
- Audio status (stereo or SAP)
- Rating of current program (if rated)




## Setting the sleep timer

The sleep timer turns the TV off automatically.

**To set the sleep timer:**

1. Press **SLEEP**.
2. Press ► to increase and ◄ to decrease the amount of time until the TV turns off (in 10-minute increments to a maximum of 180).
3. Press **EXIT** to exit the menu and return to normal TV viewing.

**To cancel the sleep timer:**

Set the sleep timer to 0 (zero) minutes, or turn the TV off and then on again.

## Auto power off

The TV turns itself off automatically after approximately 15 minutes if it is tuned to a vacant channel or a station that stops broadcasting for the day.

**Note:** The auto power off feature does not work in VIDEO mode.

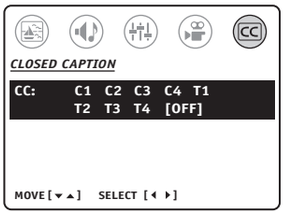
## Using the closed caption feature

The Closed Caption feature has two options:

- Captions—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified in your local TV listing as "CC").
- Text—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

**To view captions or text:**

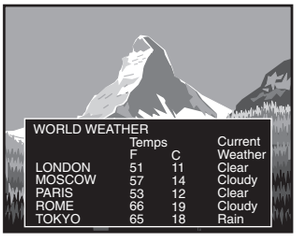
1. Tune the TV to the desired program or video.
2. Press **MENU**.
3. Press ◄ or ► to highlight the CLOSED CAPTION ("CC") menu.
4. Press ▲ or ▼ to highlight CC.



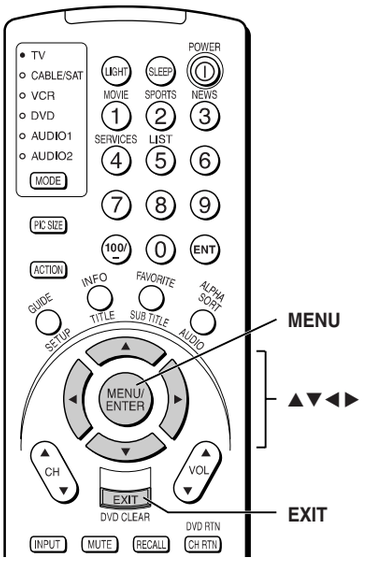

5. Press ◄ or ► to select the desired Closed Caption mode, as follows:

   - To view captions, select C1, C2, C3, or C4 (C1 displays translation of the primary language in your area). **Note:** If the program or video you selected is not closed-captioned, no captions will display on the screen.

   - To view text, select T1, T2, T3, or T4. **Note:** If text is not available in your viewing area, a black rectangle may appear on your screen. If this occurs, turn the Closed Caption feature off.




   - To turn the Closed Caption feature off, highlight OFF in the Closed Caption menu.




***Note:***

*A closed caption signal may not display in the following situations:*

- *When a videotape has been dubbed*
- *When the signal reception is weak*
- *When the signal reception is non-standard*

## Adjusting the sound

### Muting the sound

Press **MUTE** to temporarily turn the sound off. While the sound is off, the screen displays the word "MUTE" in the lower /right corner. To restore the sound, press **MUTE** or **VOLUME ▲/▼**.

When you press **MUTE**, the Closed Caption feature is automatically activated. To deactivate captions and restore normal sound, press **MUTE** again. This feature works only when the Closed Caption mode is set to OFF. See "Using the closed captioned feature" on page 40 for more information about closed caption settings.

### Selecting stereo/SAP broadcasts

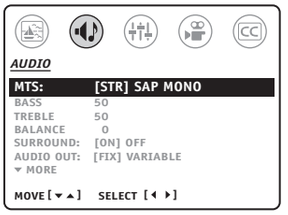
The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information. **Note:** The MTS feature is not available in VIDEO mode.

In general, you can leave your TV in stereo mode because the TV automatically outputs either stereo or monaural ("mono") sound, depending on the broadcast type.

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" displays on the screen every time you turn the TV on, change the channel, or press **RECALL**.

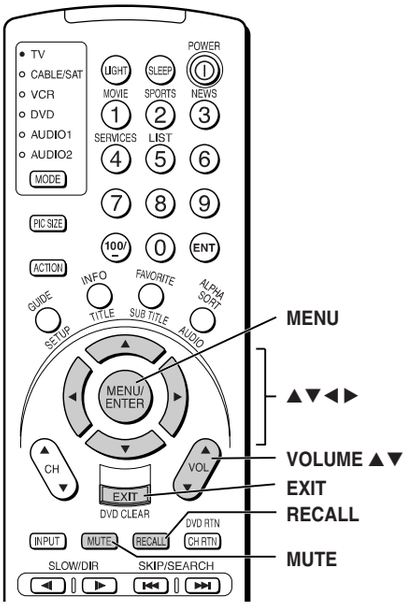
**To listen to stereo sound:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight MTS.
4. Press ◄ or ► to highlight STR (stereo).
   **Note:** If the stereo sound is noisy, select MONO to reduce the noise.



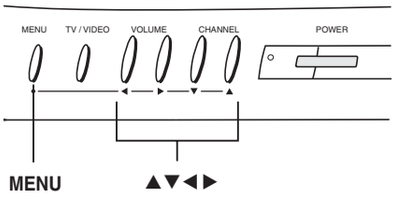

**To listen to a second audio program (SAP):**

1. Press **MENU**.
2. Press ◄ or ► to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight MTS.
4. Press ◄ or ► to highlight SAP. The TV speakers will output only the second audio program.



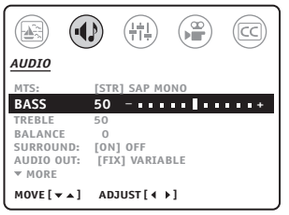
## Adjusting the sound quality

You can change the sound quality of your TV by adjusting the bass, treble, and balance.



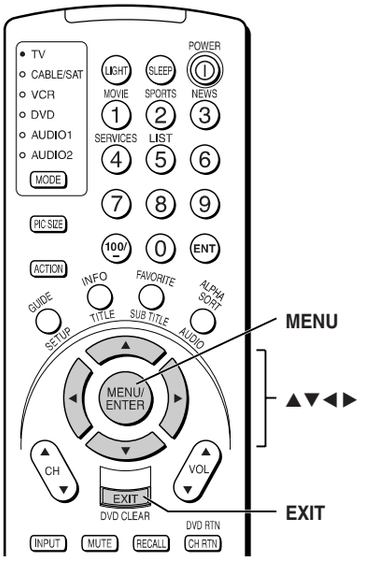

**To adjust the sound quality:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight the quality you want to adjust.
4. Press ◄ or ► to adjust the level:
   - ◄ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.
   - ► makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.



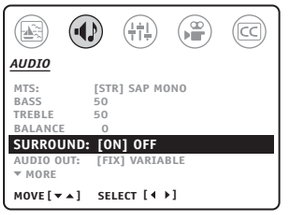

## Using the surround sound feature

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV speakers. This feature uses stereo signals from a TV broadcast or video input.




**To turn the surround sound feature on:**

1. Press **MENU**.
2. Press ◄ or ► to highlight the AUDIO menu.
3. If you have not already done so, select STEREO mode (press ▲ or ▼ to highlight MTS, and then press ◄ or ► to highlight STR).
4. Press ▲ or ▼ to highlight SURROUND.
5. Press ◄ or ► to highlight ON.




**To turn the surround sound feature off:**

Highlight OFF in step 5 above. **Note:** In general, you can leave the surround sound feature on because it automatically outputs surround stereo or monaural sound, depending on the broadcast or video type.

***Note:***

*To reset the audio adjustments to the factory settings, select RESET in the PICTURE menu (see page 38).*

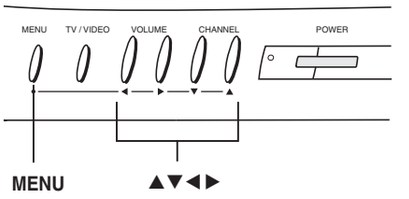
## Selecting variable audio OUT

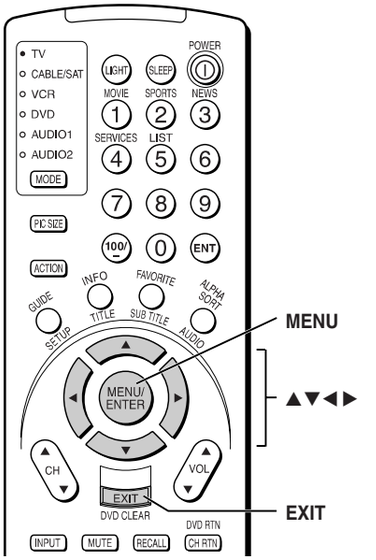
If you connect external audio equipment (such as a stereo audio amplifier or surround sound system) to the TV's Audio OUT jack, you can use the AUDIO OUT feature to select either variable or fixed audio output.

– If you set AUDIO OUT to VARIABLE, you can use the volume controls on either the TV or the audio equipment to adjust the sound level coming through the audio equipment.
– If you set AUDIO OUT to FIX, you must use the volume controls on the audio equipment to adjust the sound level coming through the audio equipment (the TV's volume setting will have no effect).

**Note:** Fixed audio output provides a cleaner signal than variable audio output.

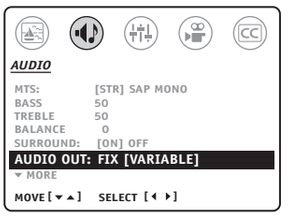
See page 12 for details on connecting an audio amplifier to the TV's Audio OUT jack.




**To select variable audio output:**

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight AUDIO OUT.
4. Press ◀ or ▶ to highlight VARIABLE.




**To select fixed audio output:**

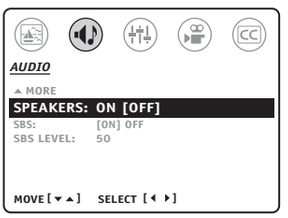
1. Highlight FIX in step 4 above.

## Turning off the built-in speakers

Use this feature to turn off the TV's built-in speakers when you connect external speakers to your TV (see "Connecting an audio amplifier" on page 12).

**To turn off the built-in speakers:**

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight SPEAKERS.
4. Press ◀ or ▶ to highlight OFF.




**To turn on the built-in speakers:**

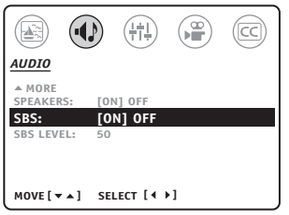
1. Highlight ON in step 4 above.

### Using the sub-bass system (SBS)

The sub-base system (SBS) allows you to enhance bass performance, even when the volume is low.

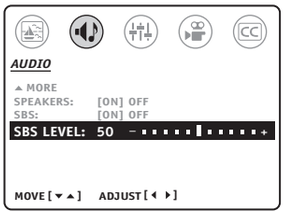
**To turn the sub-bass system on [or off]:**

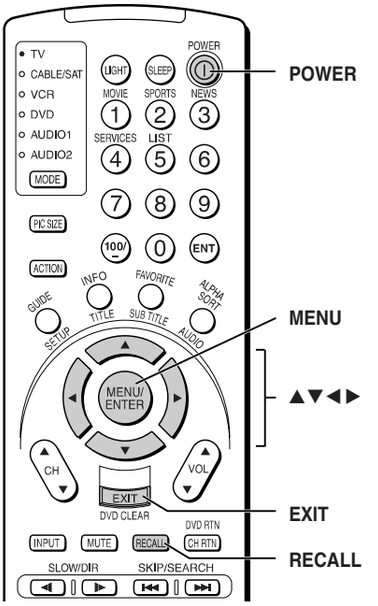
1. Press **MENU**.
2. Press ◀ or ▶ to highlight the AUDIO menu.
3. Press ▲ or ▼ to highlight SBS.
4. Press ◀ or ▶ to highlight ON [or OFF].




**To adjust the sub-bass system:**

1. Turn the sub-bass system on, as instructed above.
2. Press **MENU**.
3. Press ◀ or ▶ to highlight the AUDIO menu.
4. Press ▲ or ▼ to highlight SBS LEVEL.
5. Press ◀ or ▶ to adjust the SBS level.




## Viewing the demonstration (DEMO) mode

The demonstration (DEMO) mode is an option available on the SET UP menu that will demonstrate several features of your TV.

**To start the demonstration mode:**

1. Press **MENU**.
2. Press ◀ or ▶ to highlight the SET UP menu.
3. Press ▲ or ▼ to highlight DEMO.
4. Press ◀ or ▶ to highlight START.
5. Press **MENU** to start the demo.

**To stop the demonstration mode:**

Press **RECALL**, **EXIT**, or **POWER**.

## Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the Last Mode Memory feature turns the TV on automatically when the power is resupplied.

If the power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.

# Appendix

## Troubleshooting

Before calling a service technician, please check the following table for possible causes of the problem and some solutions.

| Problem | Solution |
|---|---|
| TV will not turn on | • Make sure the power cord is plugged in, then press **POWER**.<br>• The remote control batteries may be dead. Replace the batteries or press the **POWER** button on the TV. |
| No picture, no sound | • Check the antenna/cable connections. |
| No sound, picture OK | • The sound may be muted. Press **MUTE** or **VOLUME ▲▼**.<br>• The station may have broadcast difficulties. Try another channel. |
| Poor sound, picture OK | • The station may have broadcast difficulties. Try another channel. |
| Poor picture, sound OK | • Check the antenna connections.<br>• The station may have broadcast difficulties. Try another channel.<br>• Adjust the PICTURE menu. |
| Poor reception of broadcast channels | • The station may have broadcast difficulties. Try another channel.<br>• Check the antenna connections.<br>• If you are using a VCR, make sure the TV/VCR button is set correctly. |
| Cannot receive above channel 13 | • Make sure TV/CABLE is set to TV mode. |
| Unable to select a certain channel | • The channel may be locked out with the channel lock feature, or erased with the add/erase feature. |
| Multiple images | • The station may have broadcast difficulties. Try another channel.<br>• Use a highly directional outdoor antenna. |
| Poor color or no color | • The station may have broadcast difficulties. Try another channel.<br>• Adjust the TINT and/or COLOR in the PICTURE menu.<br>• If you change the direction of the TV while it is turned on, the picture could suffer from color shading. If so, turn the TV off and allow it to cool down for several hours before turning it on again. |
| No stereo or SAP sound from a known MTS broadcast | • Make sure the MTS feature is set properly. |
| The remote control does not operate | • Check that the TV/CABLE/VCR switch is properly set.<br>• There may be an obstruction between the remote control and the remote control sensor.<br>• The remote control batteries may be dead. Replace the batteries. |
| The V-Chip PIN code does not work | • Change or reset your PIN code. |

## Specifications

| | |
|---|---|
| Television system | NTSC standard |
| Channel coverage | VHF: 2 through 13<br>UHF: 14 through 69<br>Cable TV: Mid band (A-8 through A-1, A through 1)<br>Super band (J through W)<br>Hyper band (AA through ZZ, AAA, BBB)<br>Ultra band (65 through 94, 100 through 125) |
| Power source | 120 AC, 60 Hz |
| Power consumption | 104 W |
| Audio power | 5 W + 5 W |
| Speaker type | 2-3/8 x 4-3/4 inches (60 x 120 mm) |
| Video/Audio terminals | ColorStream® (component video) INPUT<br>Y: 1V (p-p), 75 ohm<br>$C_R$ ($P_R$): 0.7 V (p-p), 75 ohm<br>$C_B$ ($P_B$): 0.7 V (p-p), 75 ohm<br>S-VIDEO INPUT<br>Y-INPUT: 1 V (p-p), 75 ohm, negative sync.<br>C-INPUT: 0.286 V (p-p) (burst signal), 75 ohm<br>VIDEO/AUDIO INPUT<br>VIDEO: 1 V (p-p), 75 ohm, negative sync.<br>AUDIO: 150 mV (rms) (30% modulation equivalent, 47 k ohm)<br>VIDEO/AUDIO OUTPUT<br>VIDEO: 1 V (p-p), 75 ohm, negative sync.<br>AUDIO: 150 mV (rms) (30% modulation equivalent, 47 k ohm) |
| Dimensions | Width: 38-3/16 inches (970 mm)<br>Height: 30-1/16 inches (764 mm)<br>Depth: 25-1/4 inches (641 mm) |
| Weight | 154 lbs (69.9 kg) |
| Supplied accessories | Remote control with two size “AA” batteries |
| Optional TV stand | ST-3642 |

**Design and specifications are subject to change without notice.**

# Limited United States Warranty

## for 27" FST PURE® and All Larger Television Models

Toshiba America Consumer Products, Inc. ("TACP") and Toshiba Hawaii, Inc. ("THI") make the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

**Limited One (1) Year Warranty on Parts and Labor***

TACP/THI warrant this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TACP/THI Authorized Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TACP/THI Authorized Service Station for repair and returned to your home at no cost to you.

**Limited Two (2) Year Warranty on Picture Tube***

TACP/THI further warrant the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TACP/THI WILL, AT TACP/THI'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

**Rental Units**

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

***Commercial Units**

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

**Owner's Manual and Product Registration Card**

Read this owner's manual thoroughly before operating this television. Complete and mail the enclosed product registration card within ten days after you, or the person who has given you this product as a gift, purchased this television. Returning the product registration card will enable TACP/THI to provide you with better customer service and improved product support. Failure to return the product registration card will not affect your rights under this warranty.

**Your Responsibility**

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.

(2) All warranty servicing of this television must be made by an Authorized TACP/THI Service Station.

(3) The warranties from TACP and THI are effective only if the television is purchased and operated in the U.S.A. or Puerto Rico.

(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP/THI; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

**How to Obtain Warranty Services**

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

(1) To find the nearest TACP/THI Authorized Service Station:

For televisions purchased in the United States, except Hawaii, visit TACP's web site at **www.toshiba.com/tacp**, or call toll free 1-800-631-3811.

For televisions purchased in Hawaii, contact Toshiba Hawaii, Inc., 327 Kamakee Street, Honolulu, HI 96814, (808) 591-9281.

(2) Present your bill of sale or other proof of purchase to the Authorized Service Station. Authorized TACP/THI Service Station personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Station for repair and returned to your home at no cost to you.

**For additional information, visit TACP's web site: www.toshiba.com/tacp.**

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP or THI arising under this warranty or under any law of the United States or of any state thereof is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

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REV. MAR02

# Limited Canada Warranty

## for 27" FST PURE® and All Larger Television Models

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES.

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

**Limited One (1) Year Warranty on Parts and Labor***

TCL warrants this television and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. TCL Authorized Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the TCL Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

**Limited Two (2) Year Warranty on Picture Tube***

TCL further warrants the picture tube in this television against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, EXCEPT THAT, IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER ONE (1) YEAR FROM THE DATE OF THE ORIGINAL RETAIL PURCHASE, YOU PAY LABOR CHARGES INVOLVED IN THE REPAIR OR REPLACEMENT.

**Rental Units**

The warranty for rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

***Commercial Units**

Televisions sold and used for commercial purposes have a limited ninety (90) day warranty for all parts, labor, and picture tubes.

**Owner's Manual**

Read this owner's manual thoroughly before operating this television.

**Your Responsibility**

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

(1) You must provide your bill of sale or other proof of purchase.

(2) All warranty servicing of this television must be made by an Authorized TCL Service Depot.

(3) The warranties from TCL are effective only if the television is purchased in Canada from an authorized TCL dealer and operated in Canada.

(4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any television or parts that have been lost or discarded by you or to damage to television or parts caused by misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

**How to Obtain Warranty Services**

If, after following all of the operating instructions in this manual and checking the "Troubleshooting" section, you find that service is needed:

(1) To find the nearest TCL Authorized Service Depot, visit TCL's web site: **www.toshiba.ca**.

(2) Present your bill of sale or other proof of purchase to the Authorized Service Depot. Authorized TCL Service Depot personnel will come to your home when warranty service is required. Depending on the type of repair required, either the service will be performed in your home or the set will be taken to the Authorized Service Depot for repair and returned to your home at no cost to you. IN-HOME SERVICE ONLY APPLIES WITHIN 100 KILOMETERS OF AN AUTHORIZED TCL SERVICE DEPOT.

**For additional information, visit TCL's web site: www.toshiba.ca**

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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TCL arising under this warranty or under any law of Canada or of any province thereof, is hereby limited to 90 days from the date you discover, or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any province of Canada.

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# Notes

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